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CO'S  
ILLUSTRATED CATALOGUE  
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1875



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REFERENCE

comprising such works as, from their rarity or value, should not be lent out, all unbound periodicals, and such text books as ought to be found in a library of reference except when required by Committees of the Institute, or by members or holders of second class stock, who have obtained the sanction of the Committee. The second class shall include those books intended for circulation.

ARTICLE VI.—The Secretary shall have authority to loan to Members and to holders of second class stock, any work belonging to the SECOND CLASS, subject to the following regulations:

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*Section 2.*—A FINE OF TEN CENTS PER WEEK shall be exacted for the detention of a book beyond the limited time; and if a book be not returned within three months it shall be deemed lost, and the borrower shall, in addition to his fines, forfeit its value.

*Section 3.*—Should any book be returned injured, the borrower shall pay for the injury, or replace the book, as the Library Committee may direct; and if one or more books, belonging to a set or sets, be lost, the borrower shall replace them or make full restitution.

ARTICLE VII.—Any person removing from the Hall, without permission from the proper authorities, any book, newspaper or other property in charge of the Library Committee, shall be reported to the Committee, who may inflict any fine not exceeding twenty-five dollars.

ARTICLE VIII.—No member or holder of second class stock, whose annual contribution for the current year shall be unpaid or who is in arrears for fines, shall be entitled to the privileges of the Library or Reading Room.

ARTICLE IX.—If any member or holder of second class stock, shall refuse or neglect to comply with the foregoing rules, it shall be the duty of the Secretary to report him to the Committee on the Library.

ARTICLE X.—Any Member or holder of second class stock, detected in mutilating the newspapers, pamphlets or books belonging to the Institute shall be deprived of his right of membership, and the name of the offender shall be made public.











ILLUSTRATED CATALOGUE  
OF  
WROUGHT IRON PIPE,  
BRASS AND IRON

Steam, Gas and Water Goods,

PLUMBERS' SUPPLIES,

TOOLS,

CAST IRON RADIATORS AND BOILERS,  
PHILADELPHIA  
*FLANGED PIPE,*

GREENHOUSE FITTINGS, &c. &c.

MANUFACTURED BY THE

Eaton, Cole & Burnham Co.

58 John St. New-York.

Factory at BRIDGEPORT, CONN.

1875.



*New York, January 1st, 1875.*

*We have endeavored to make this the most complete ILLUSTRATED CATALOGUE that there is in the trade of goods used in the Steam and Gas Fitting and Plumbing business.*

*Our facilities for manufacturing are unequaled, and carrying large stocks of goods, both here and at the Factory, we are able to fill orders promptly, and at as low prices as can be given.*

*It is our aim to make all our goods of the best material, and in the most workman-like manner.*

*Price Lists furnished on application.*

*EATON, COLE & BURNHAM CO.*

*JOHN EATON, President.*

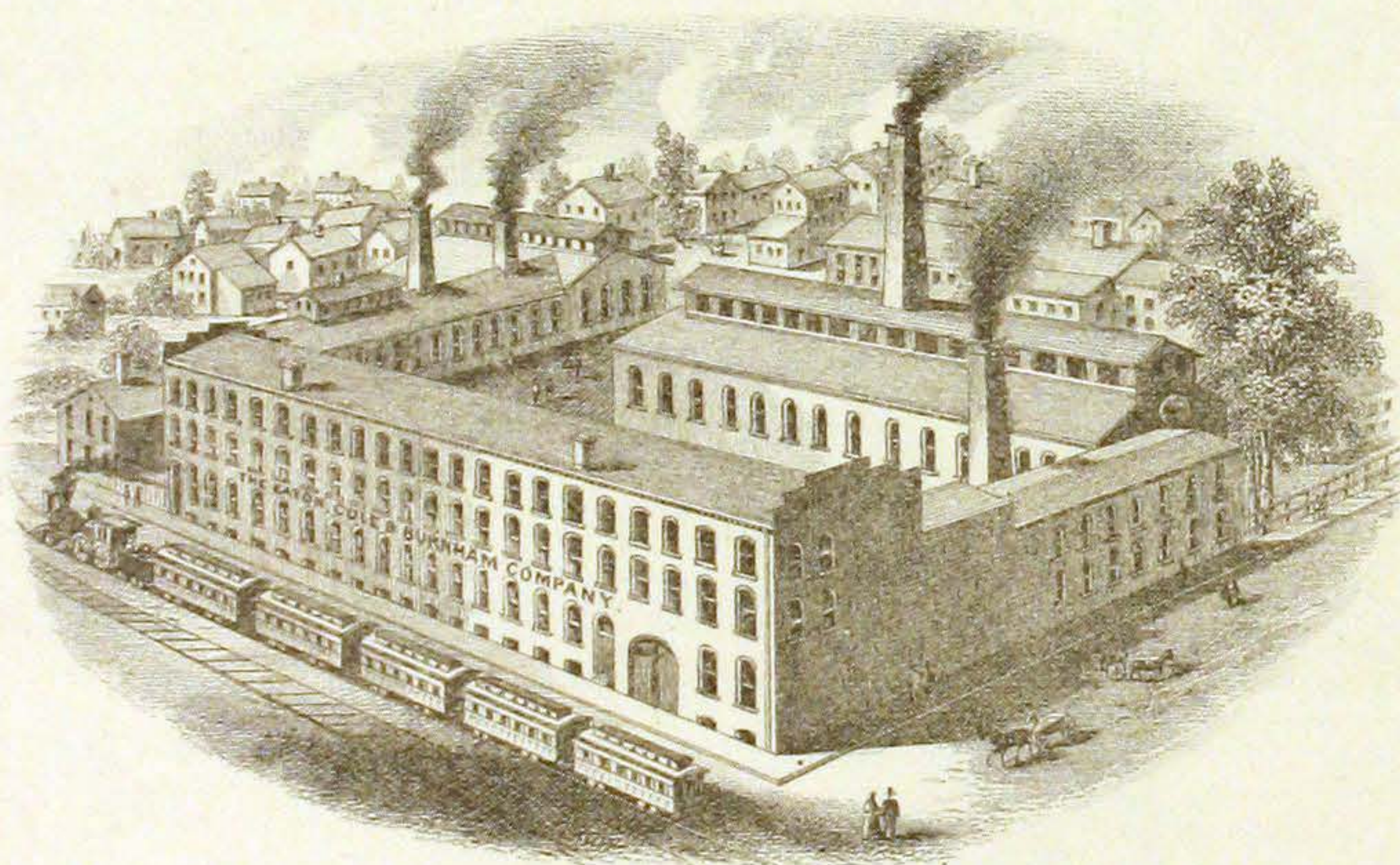
*E. G. BURNHAM, Vice-President.*

*E. H. COLE, Treasurer.*



THE EATON, COLE & BURNHAM CO'S  
WORKS

AT



BRIDGEPORT, CONN.

The Works can be seen from the Cars of the N. Y. & New Haven R. R. Co. just before they reach the depot, going from New York.



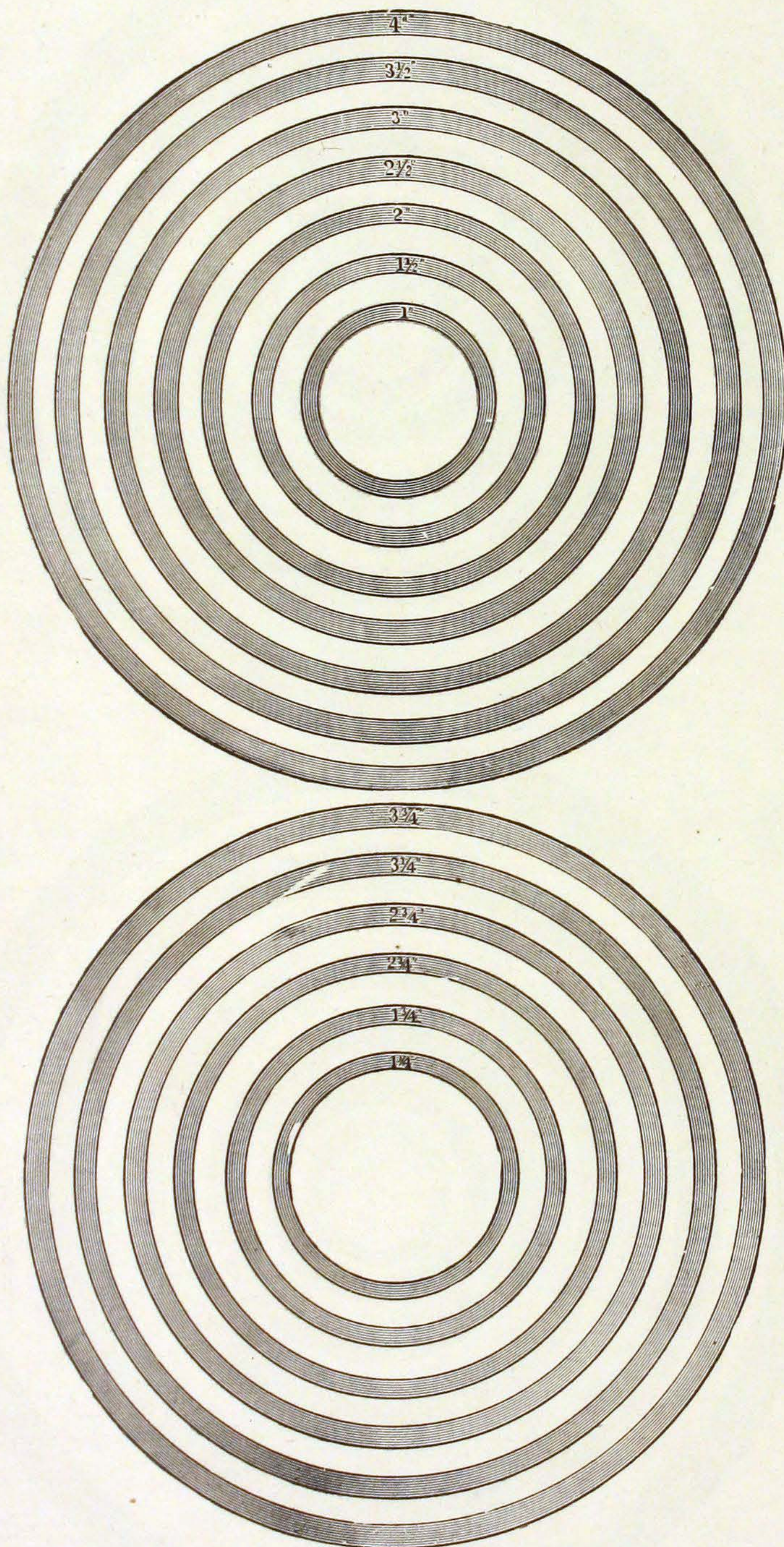
We are prepared to furnish, at the lowest market rates, GRAY IRON CASTINGS for Steam Fittings of all kinds and for other purposes, where only the best brands of Iron can be used.

MALLEABLE IRON CASTINGS to order. BRASS CASTINGS of all descriptions furnished promptly, and at low prices.



# BOILER FLUES.

Fig. 1.



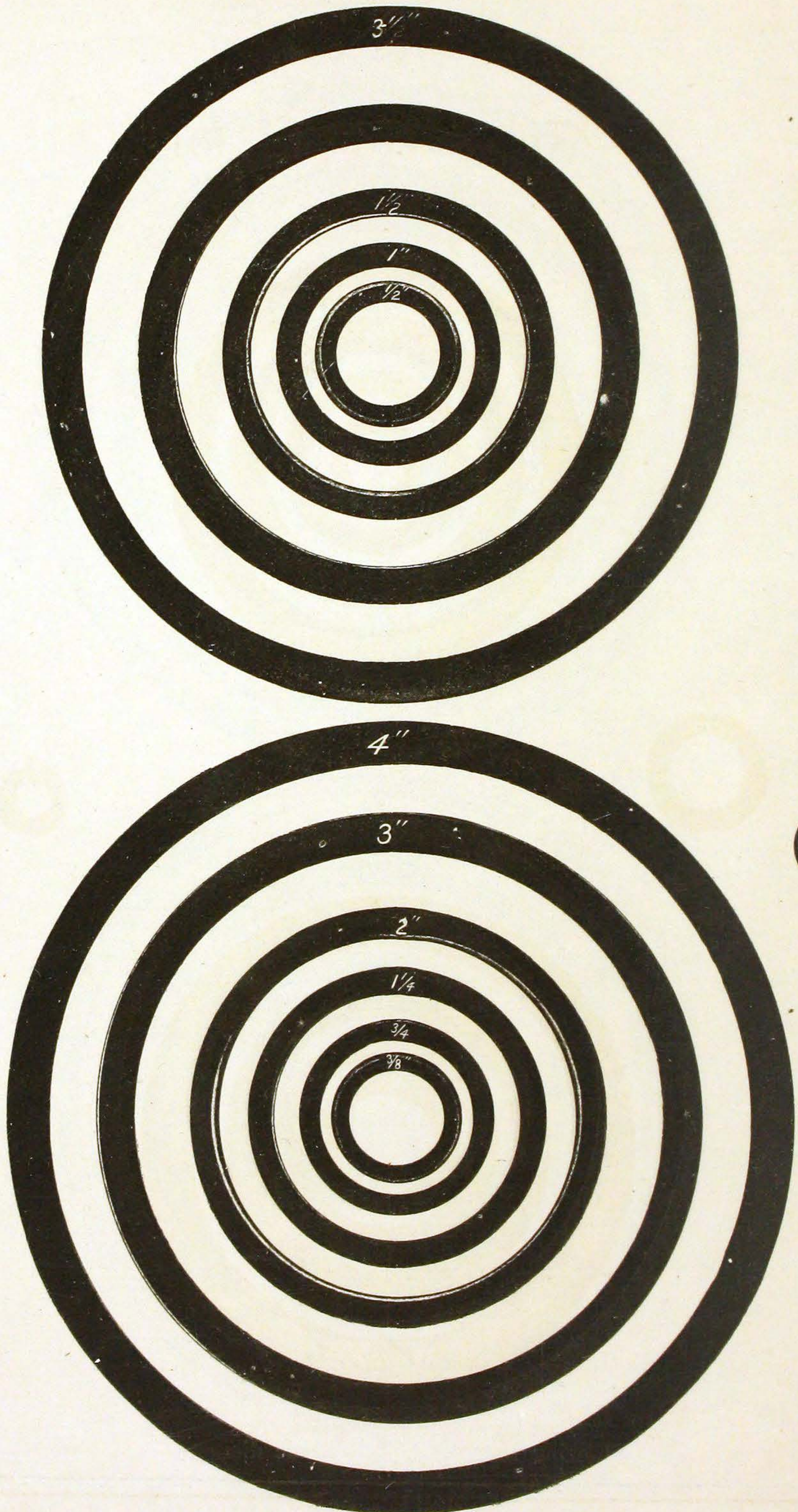
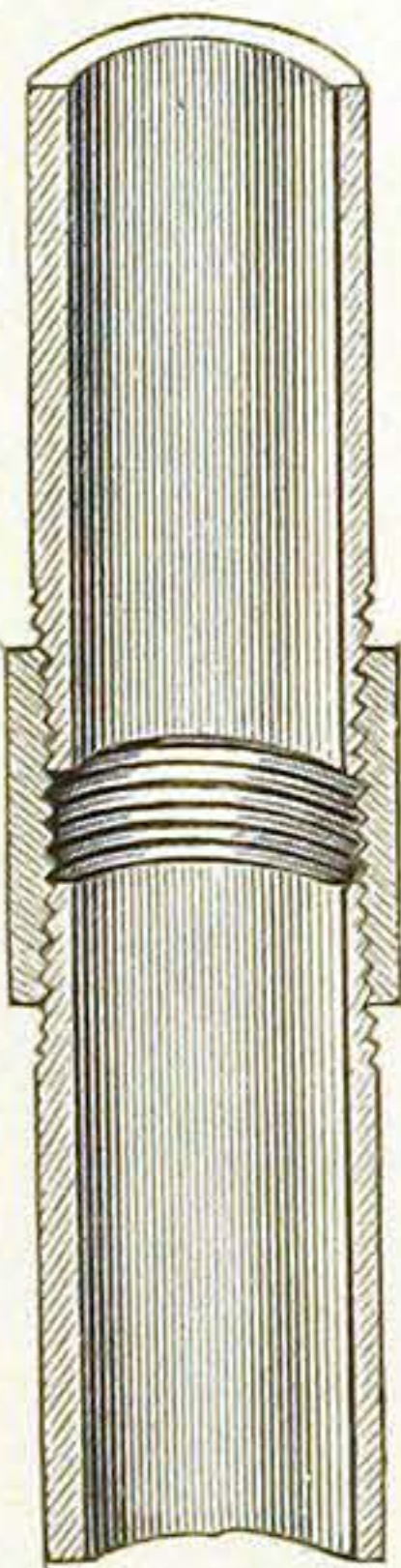
Showing the inside and outside diameter.



# WROUGHT IRON PIPE.

Fig. 2.

Section of Pipe with Coupling.

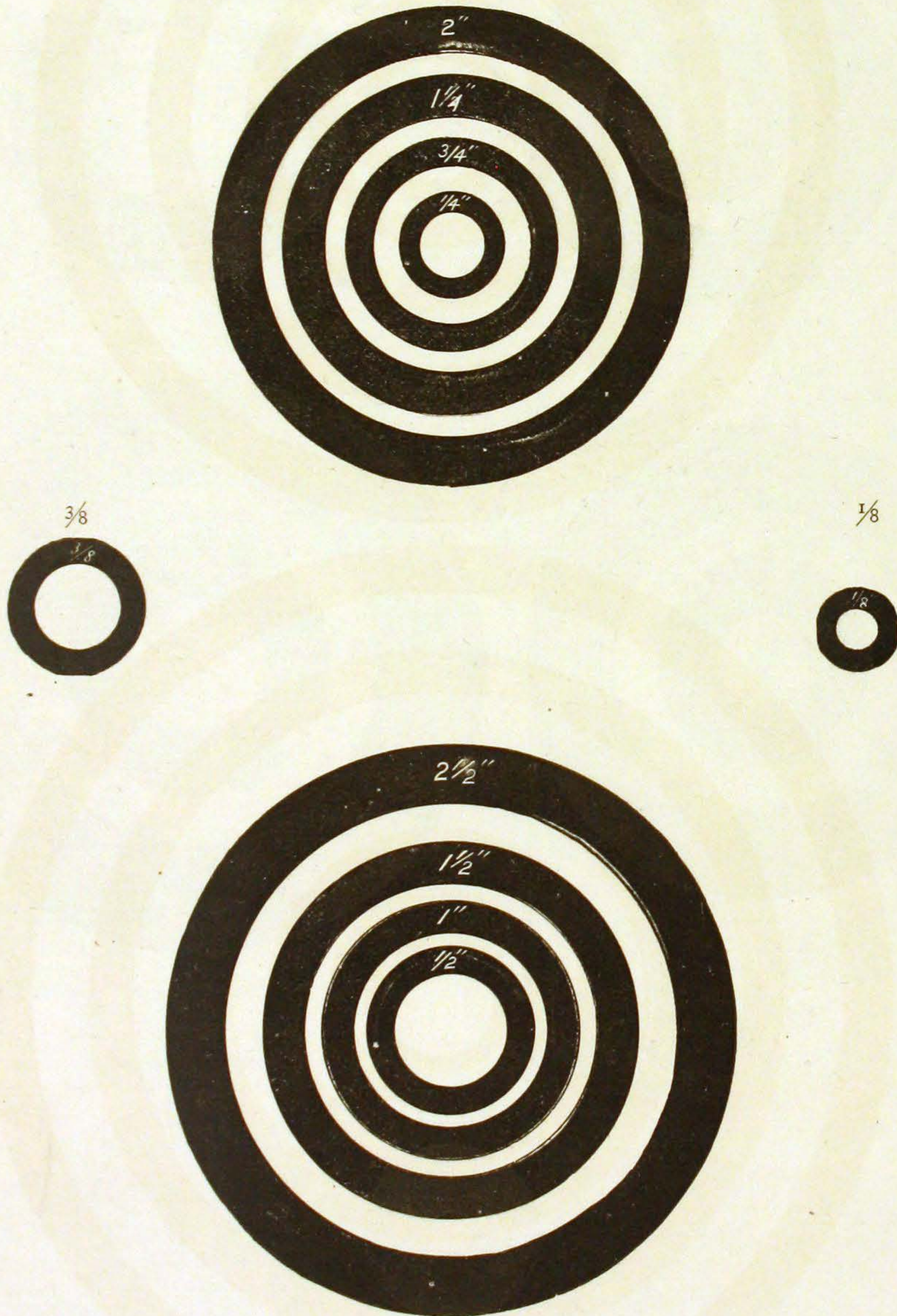


Showing inside and outside diameter.



# EXTRA STRONG PIPE.

Fig. 3.

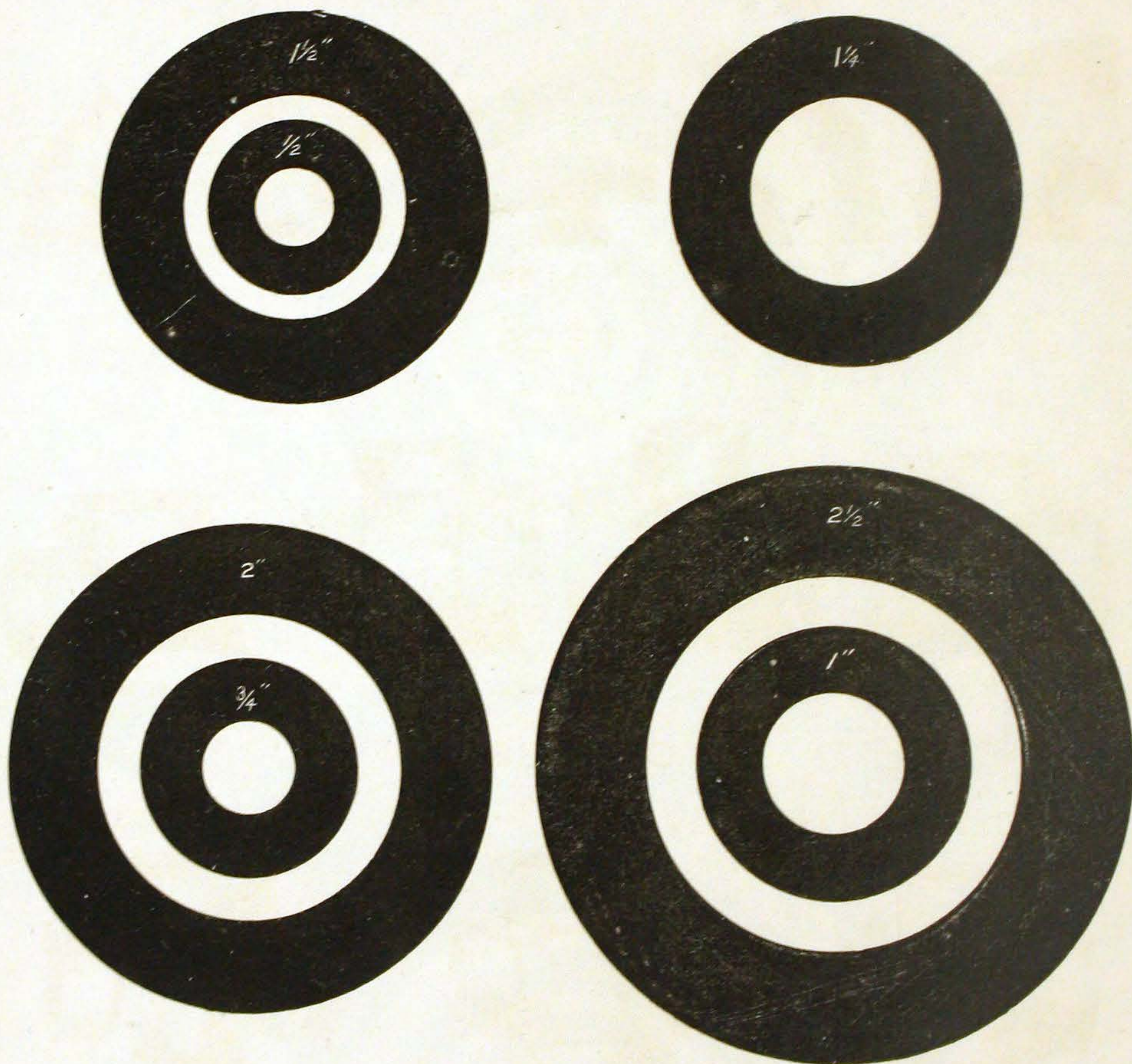


Showing inside and outside diameter.



## DOUBLE EXTRA STRONG PIPE.

Fig. 4.



## HYDRAULIC PIPE.

Fig. 5.



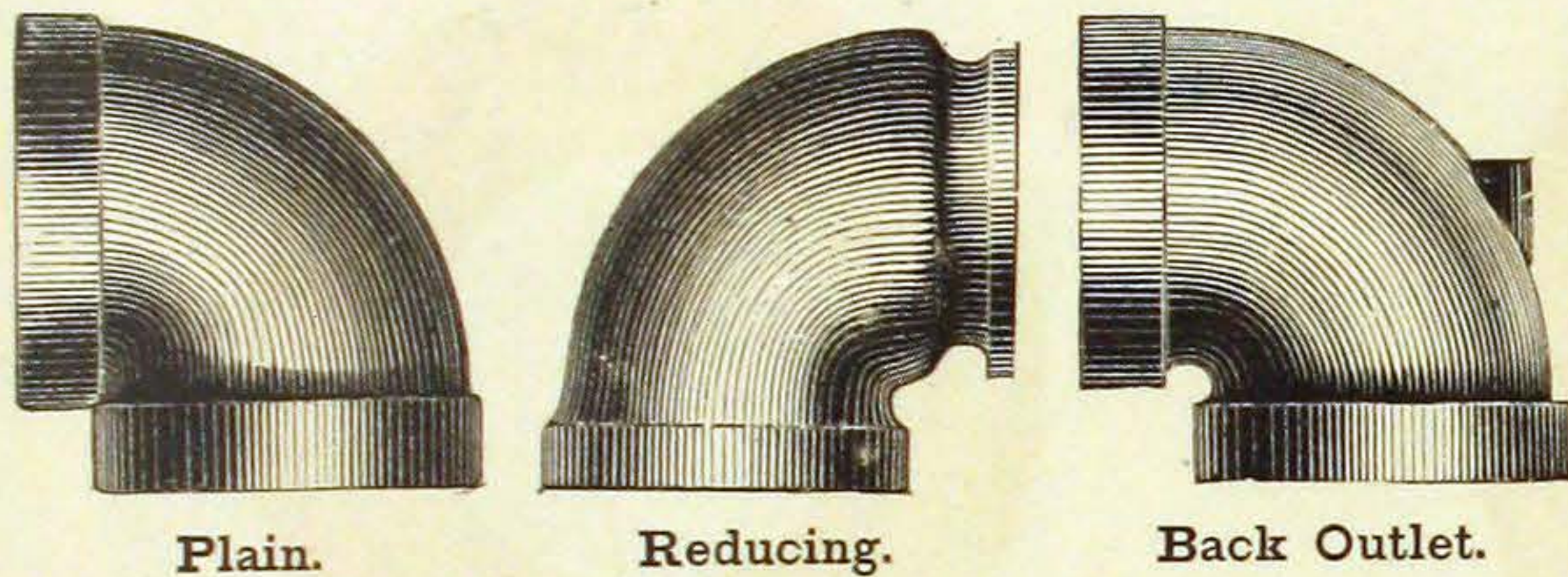
Showing the inside and outside diameter.



# PIECE FITTINGS.

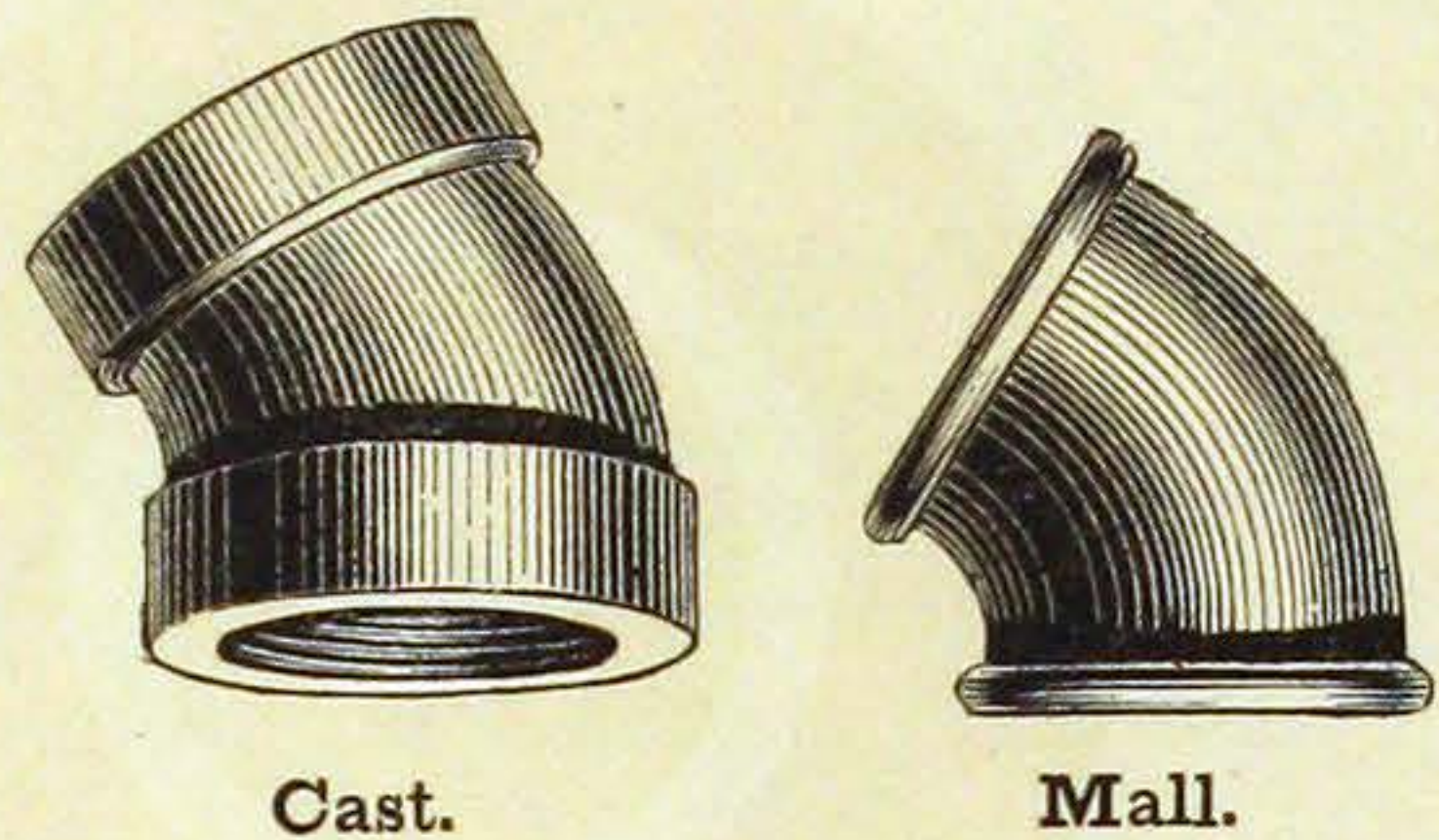
## ELBOWS.

Fig. 6.



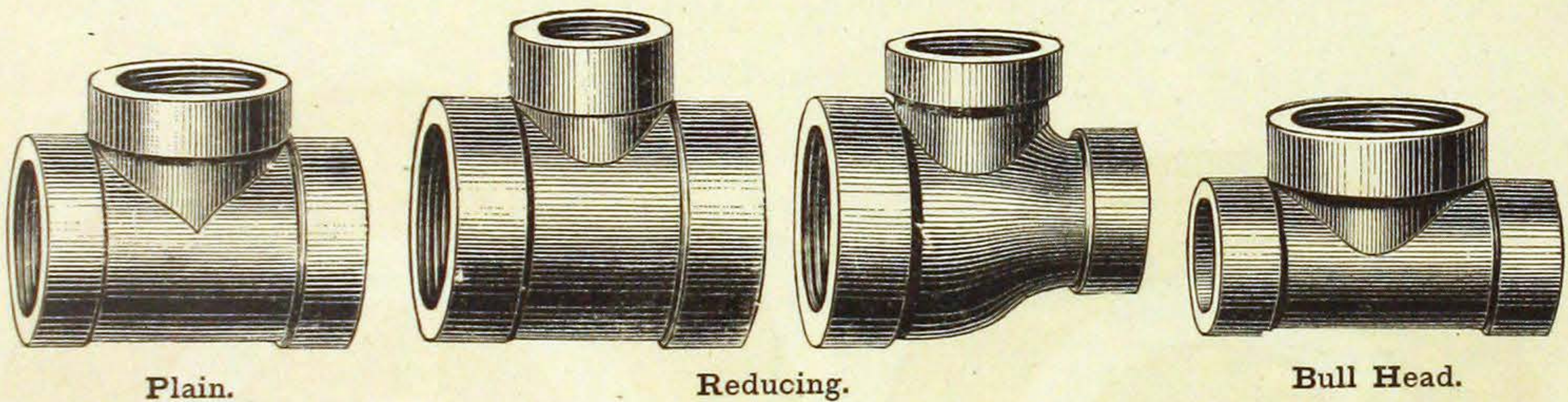
## 45° ELBOWS.

Fig. 7.



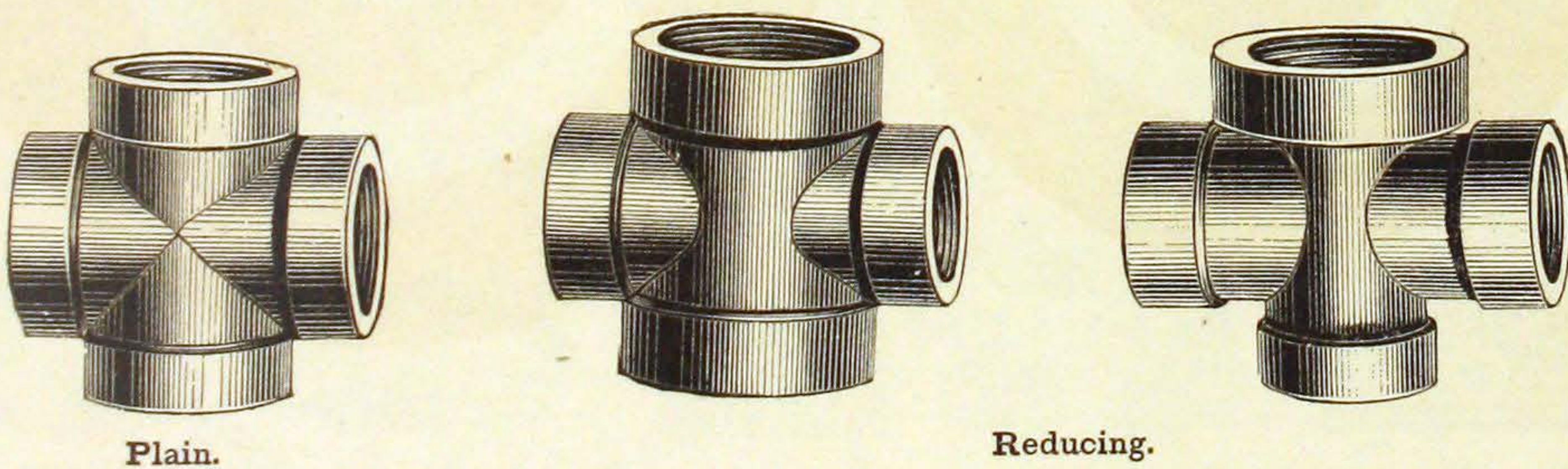
## TEES.

Fig. 8.



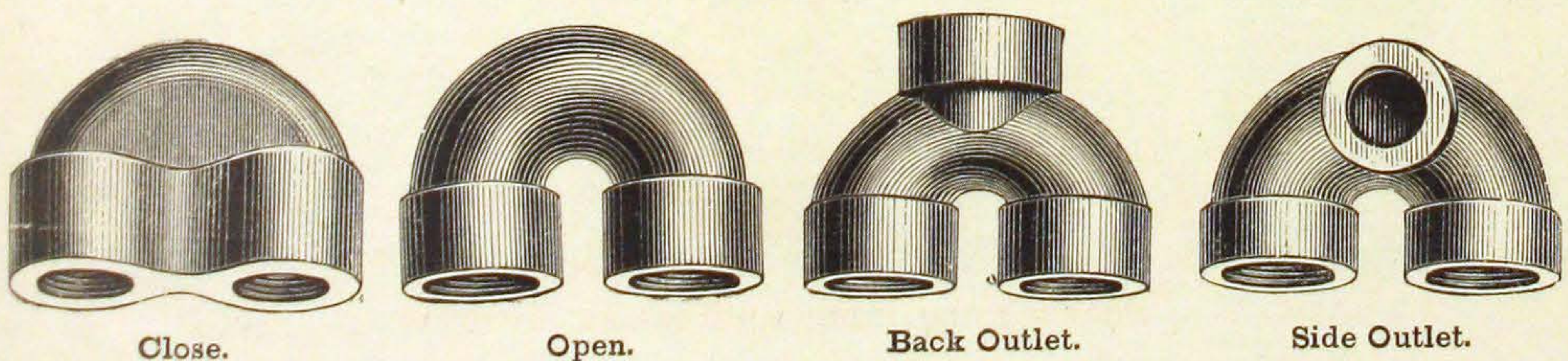
## CROSSES.

Fig. 9.



## RETURN BENDS.

Fig. 10.

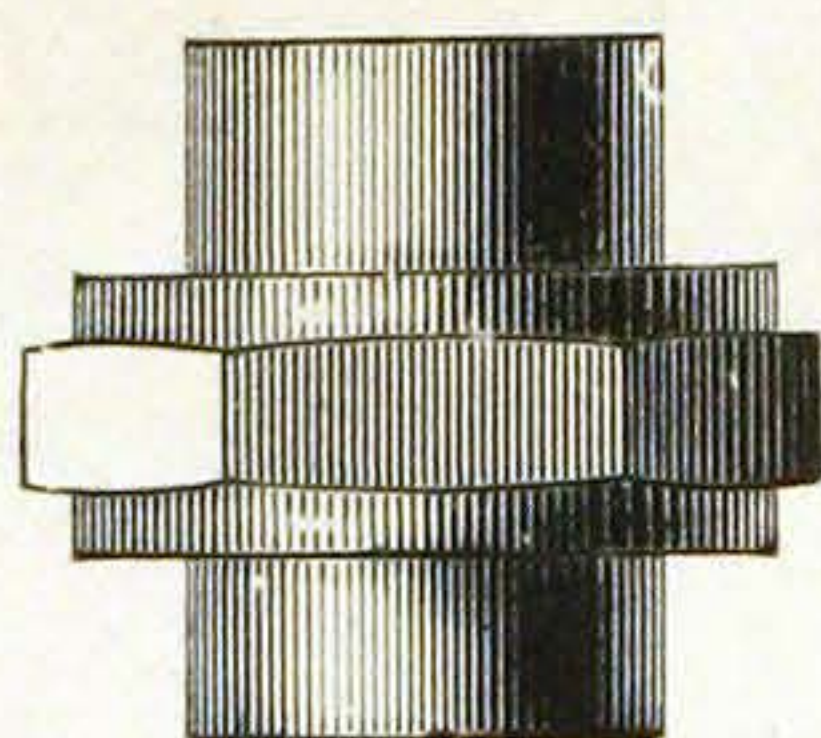




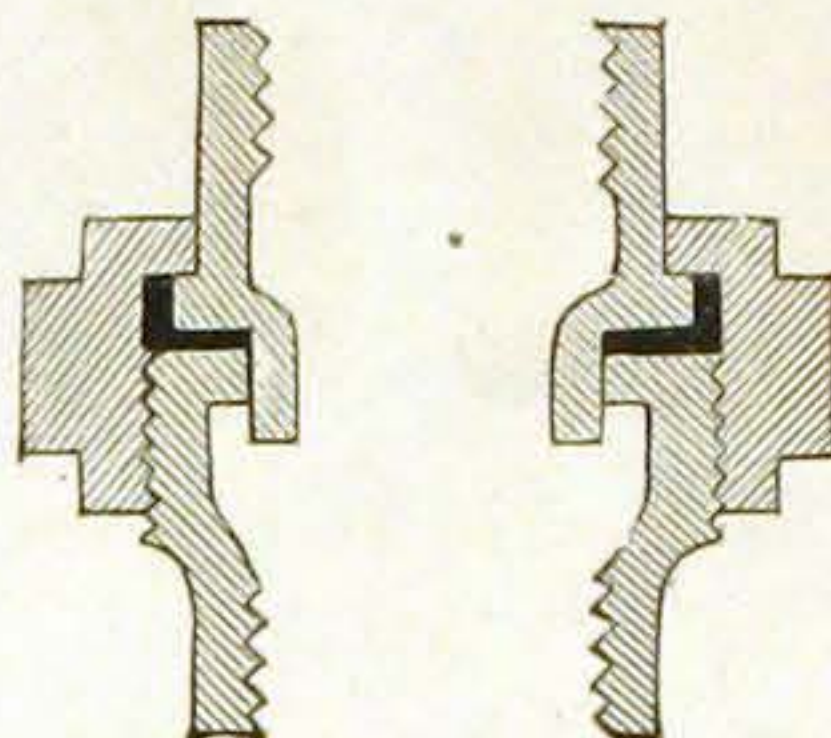
## PIECE FITTINGS.

## UNIONS.

Fig. 11.



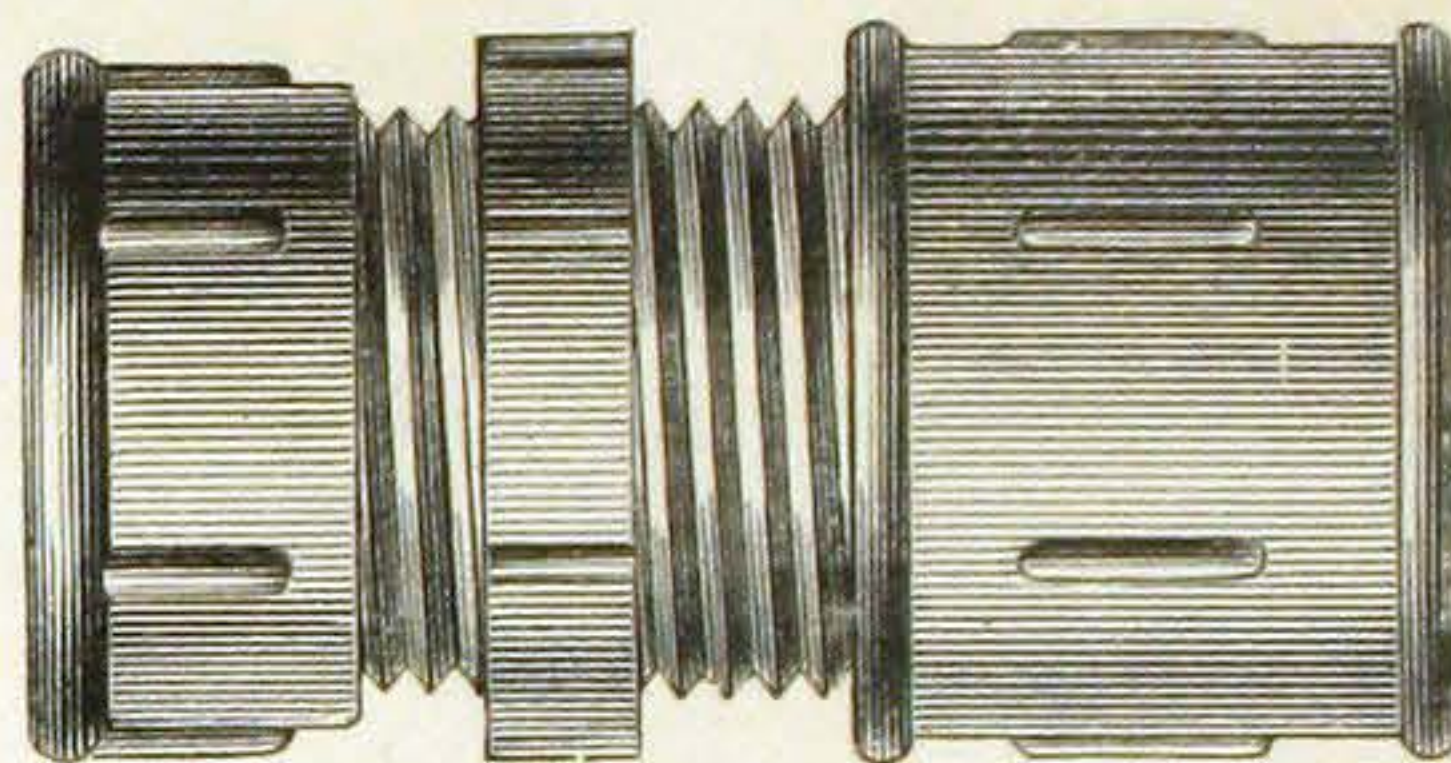
Common.



Showing Lip.

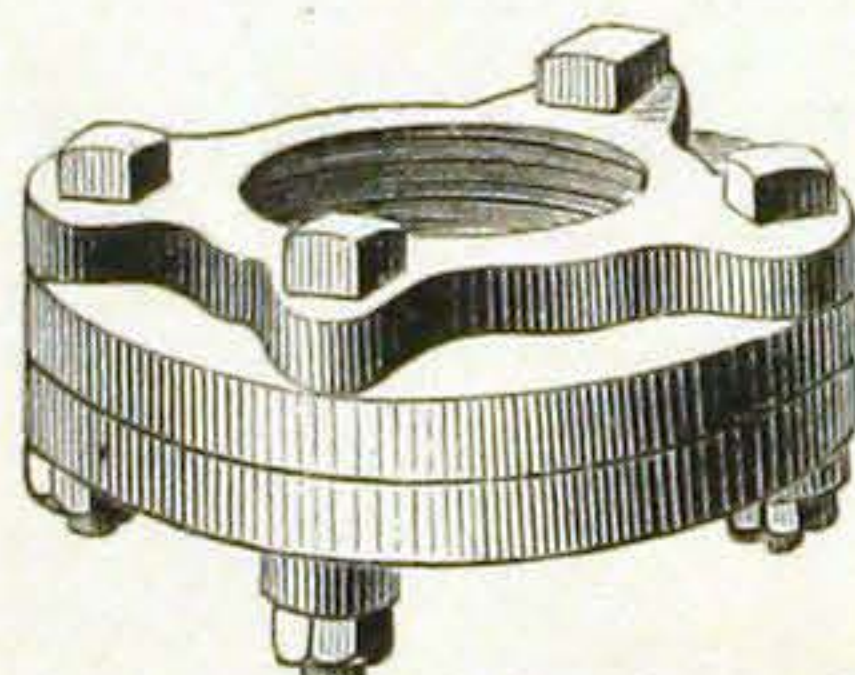
## SNOW'S PAT. UNION.

Fig. 12.

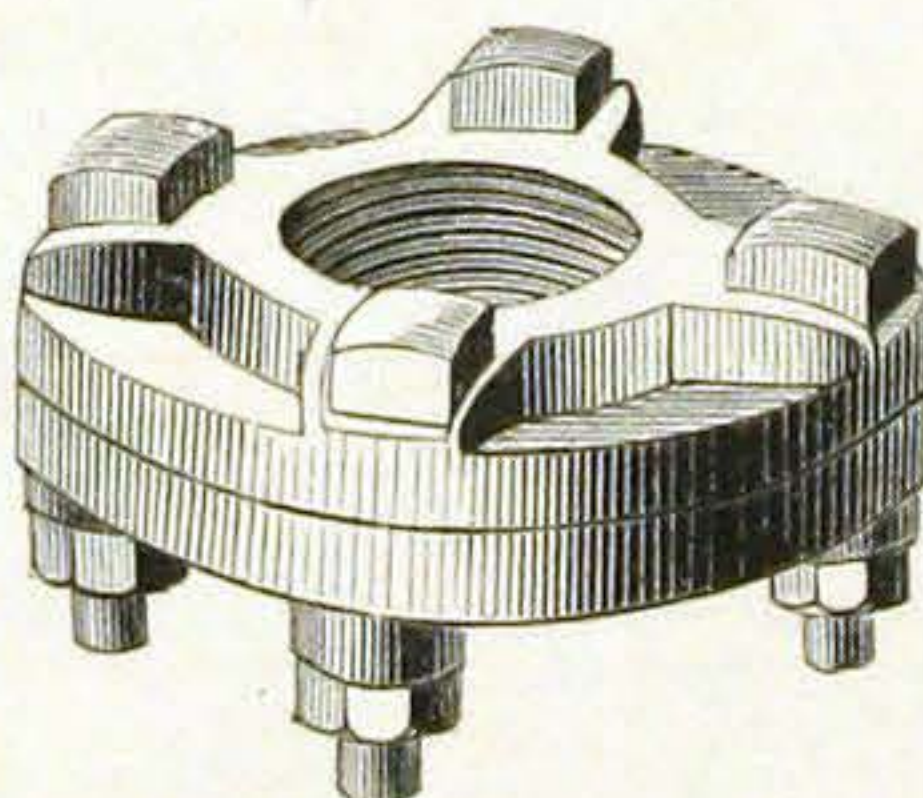


## FLANGE UNIONS.

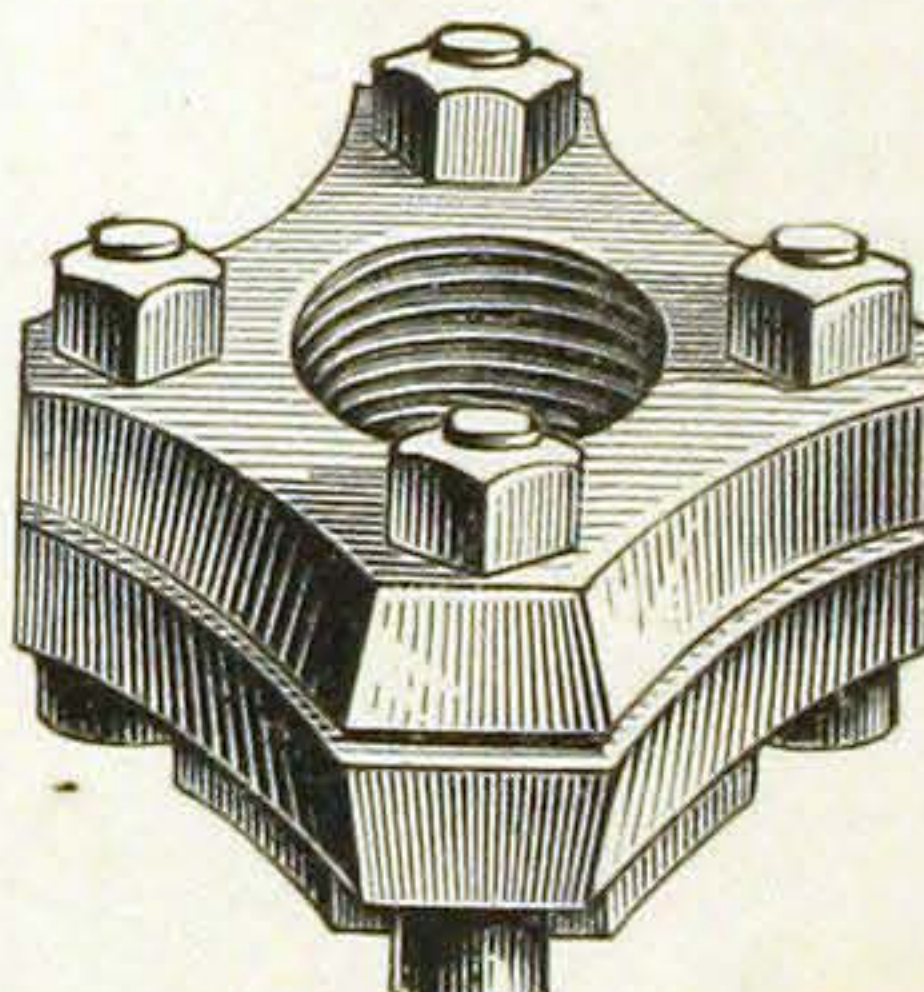
Fig. 13.



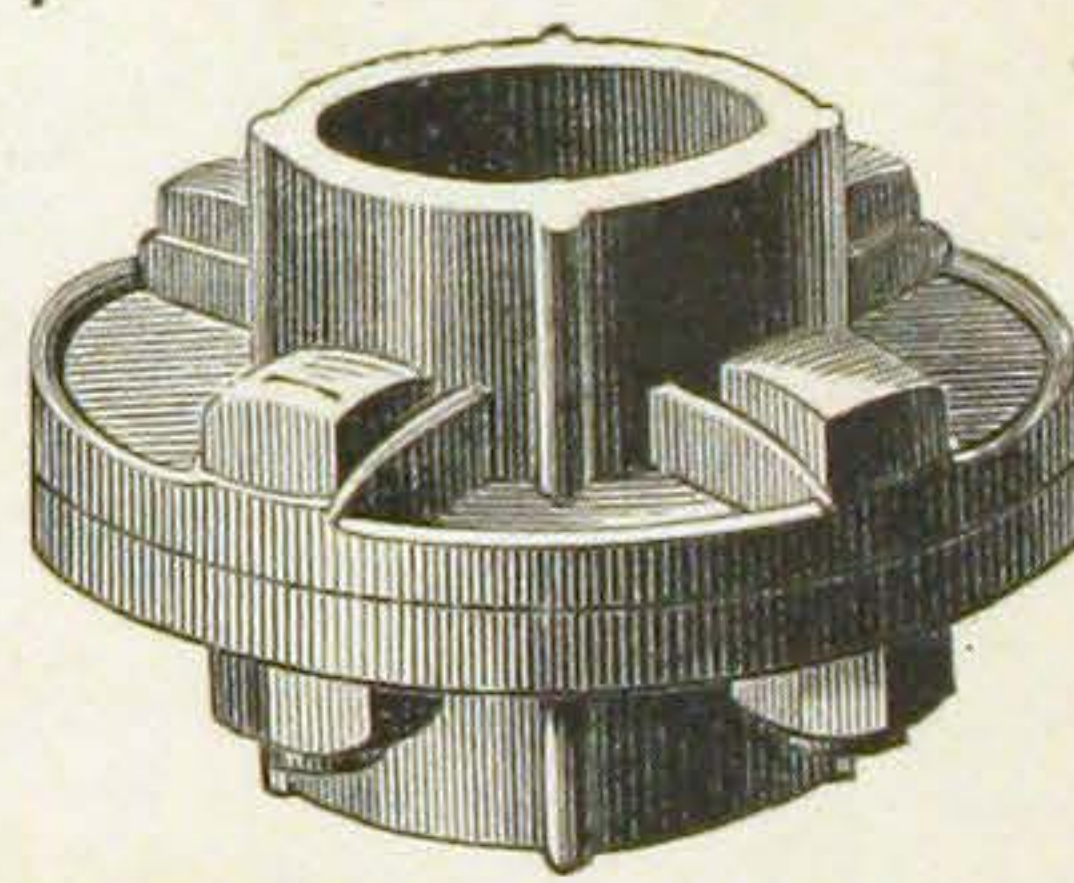
Common.



New Style.



Square.



Malleable Iron.

## BUSHINGS.

Fig. 14.



With Squares.

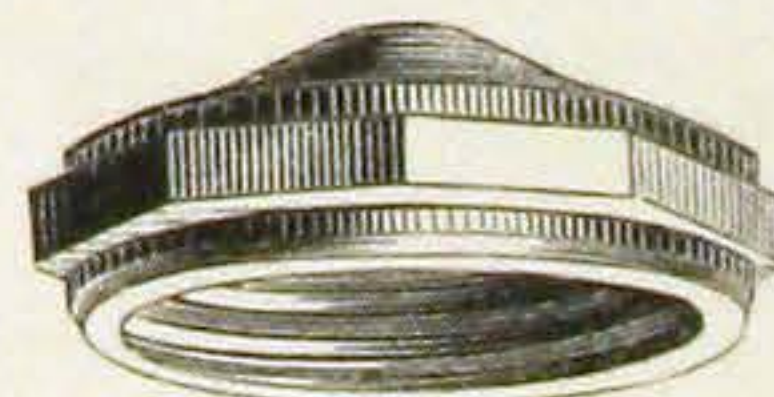


Plain.

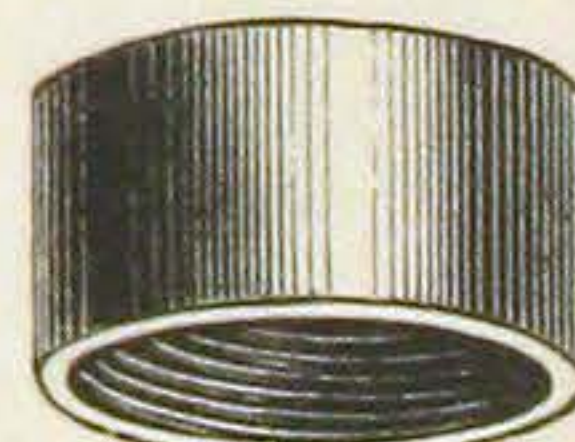


## PLUG.

Fig. 15.



Cast.



Malleable.

## CAPS.

Fig. 16.

## NIPPLES.

Fig. 17.



Shoulder.



Long.

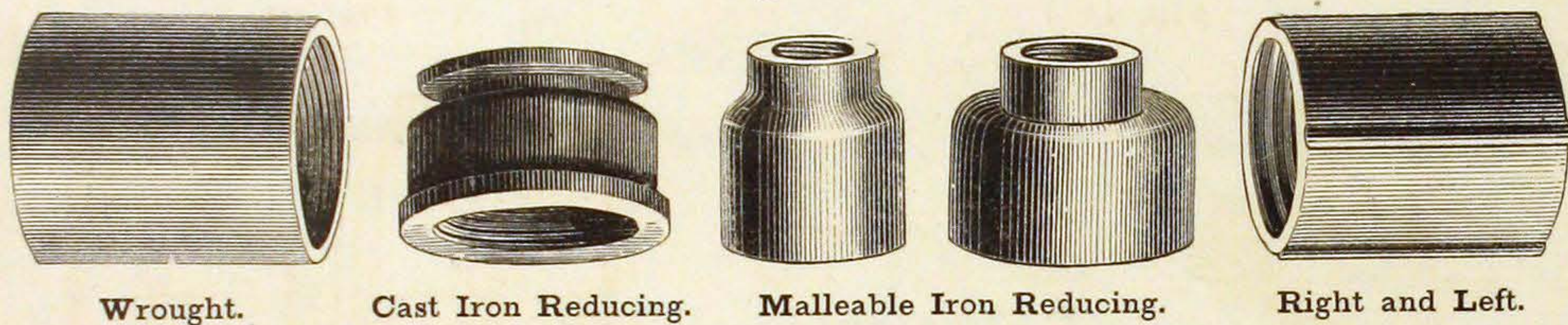


Close.



# PIECE FITTINGS. COUPLINGS.

Fig. 18.



## LOCKNUTS. OFFSET. LONG SCREW.

Fig. 19.

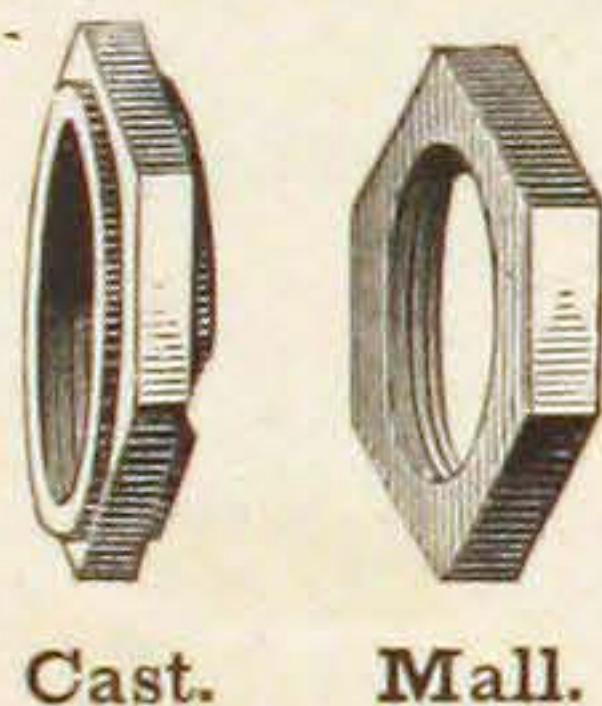


Fig. 20.

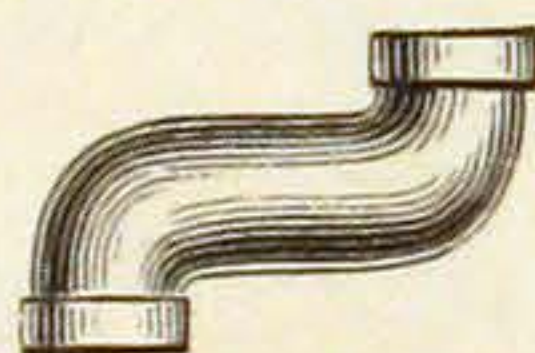
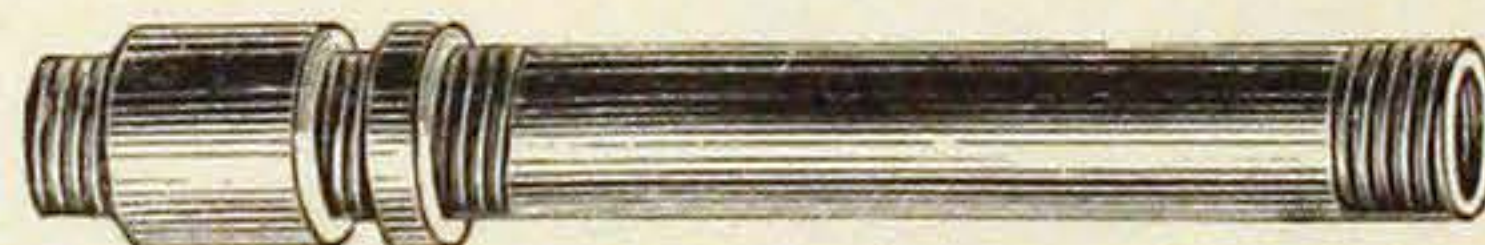
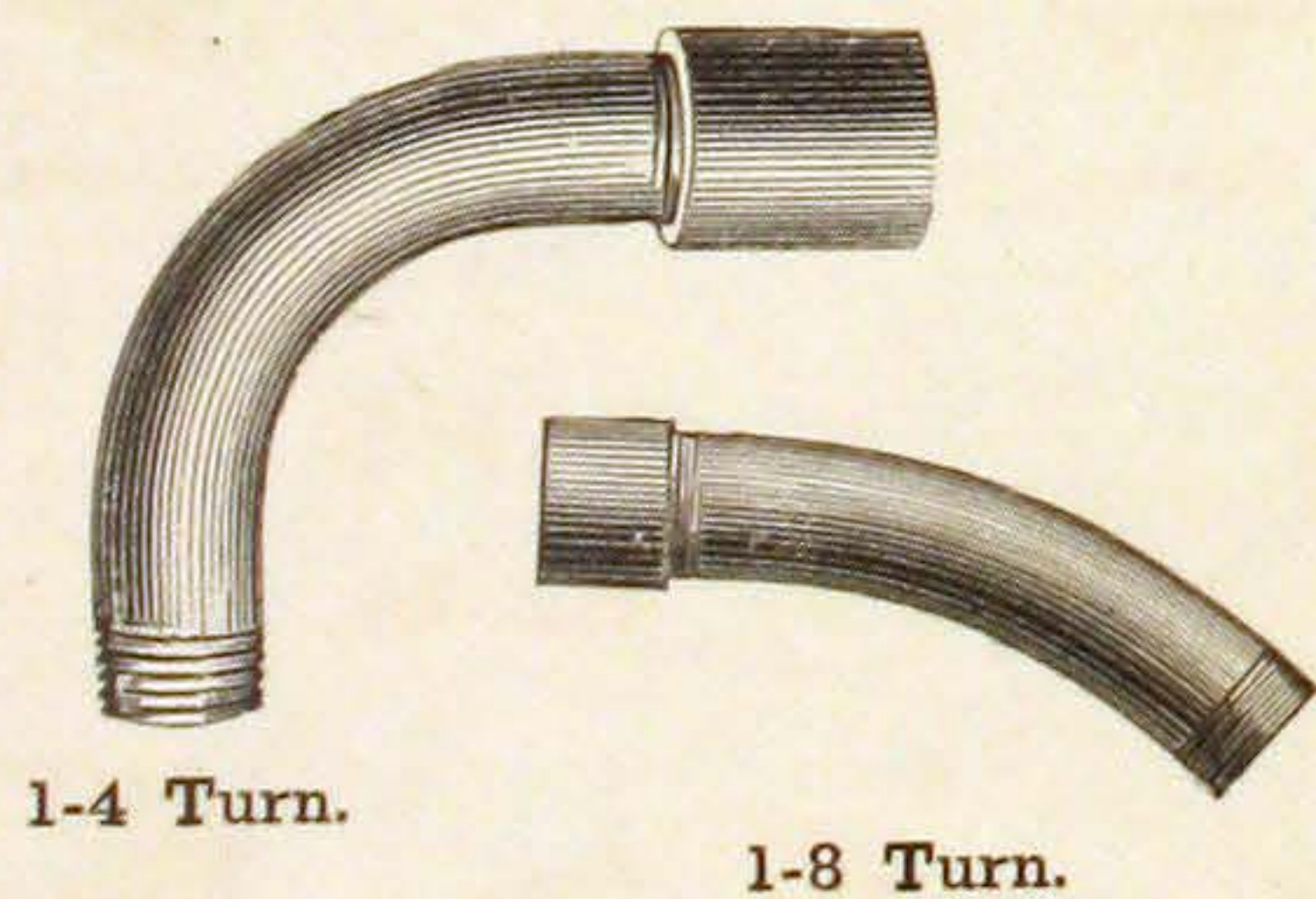


Fig. 21.

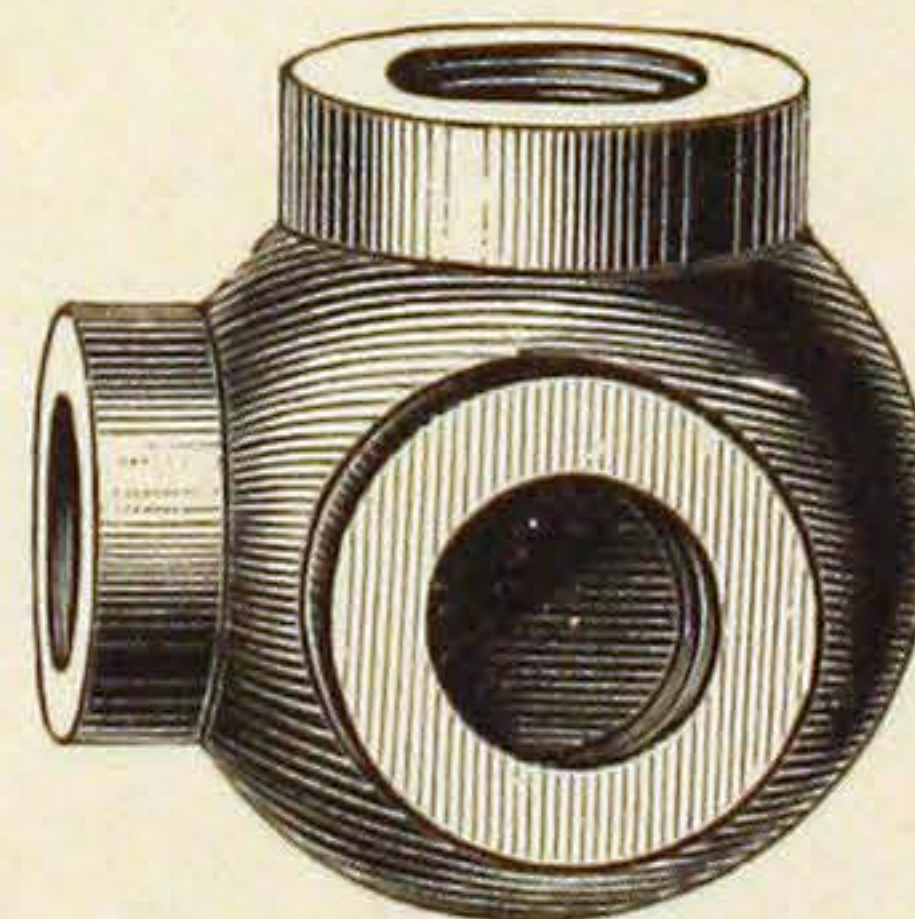


## WROUGHT IRON BENDS. CORNER FITTING.

No. 22.

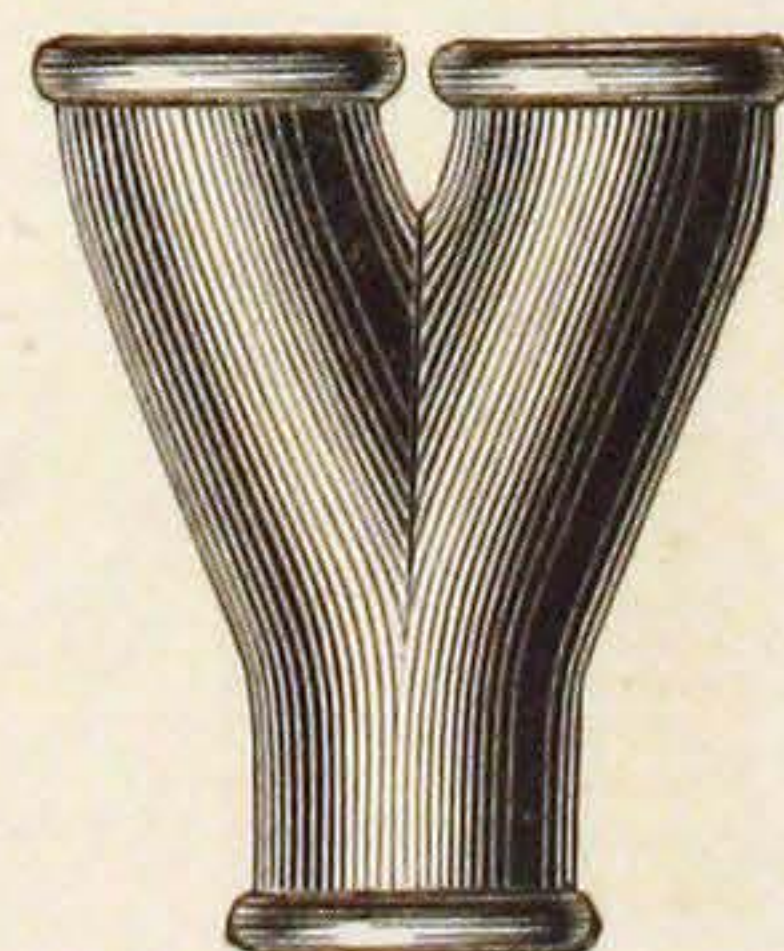
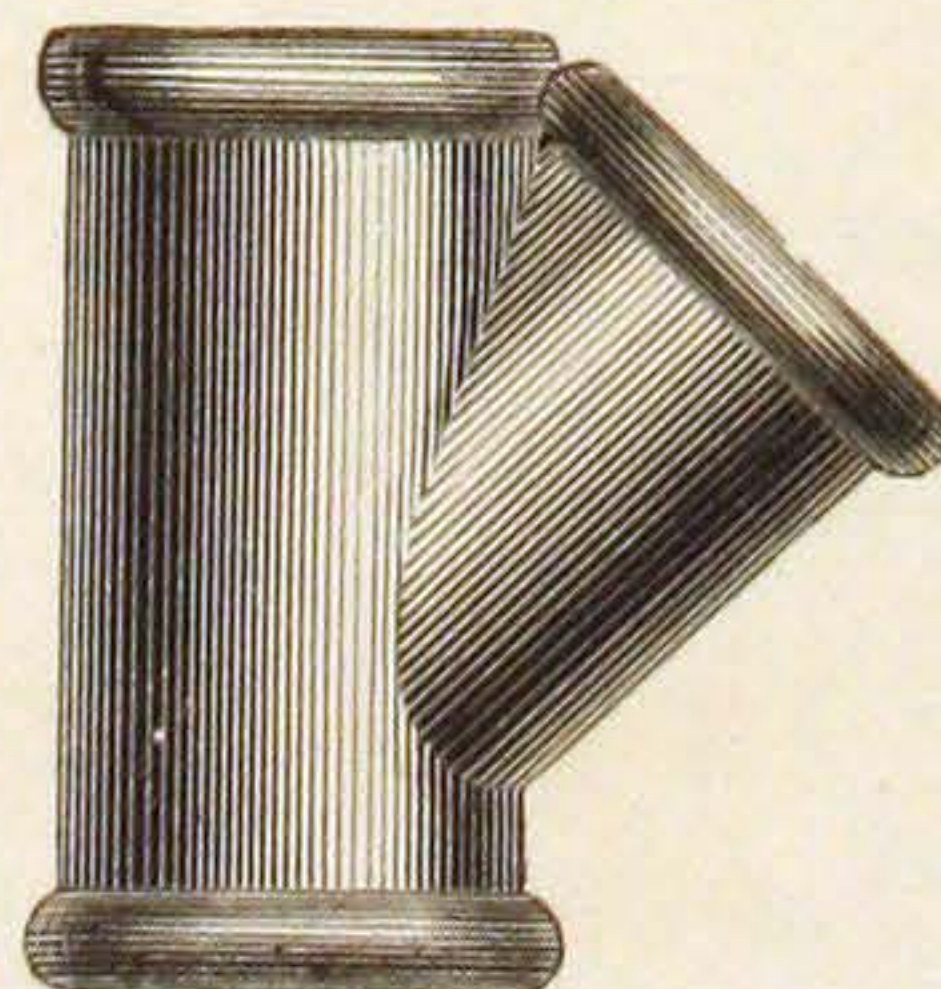
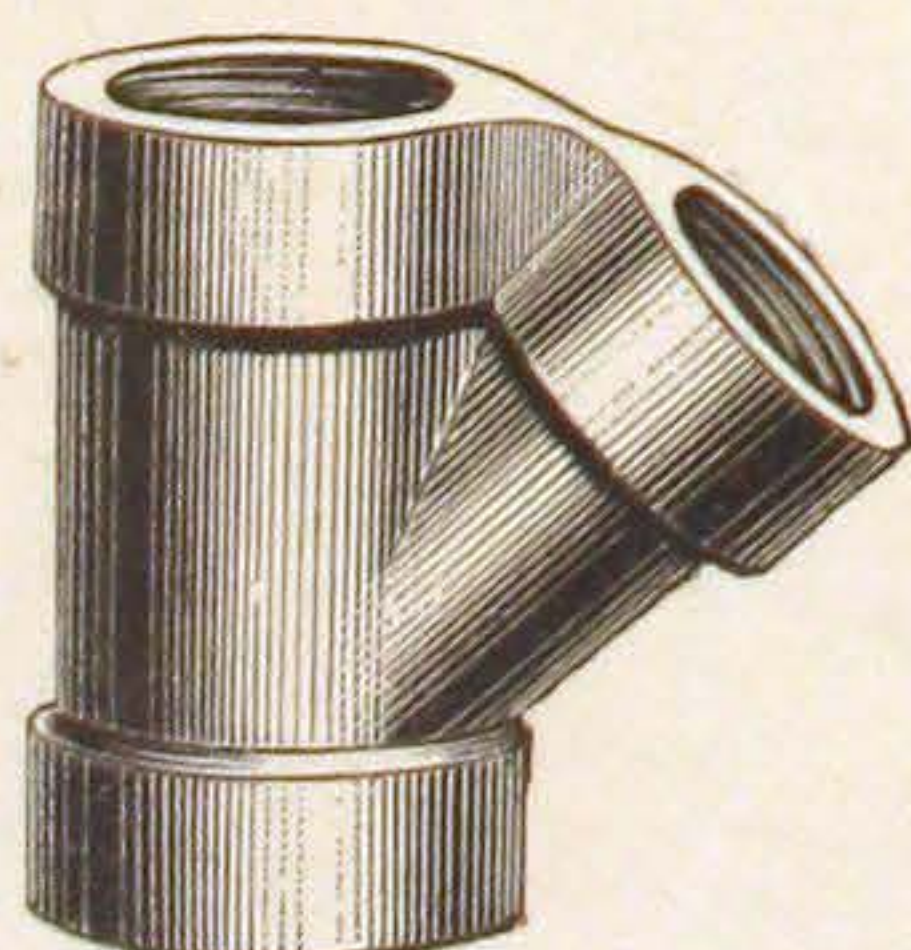


No. 23.



YS.

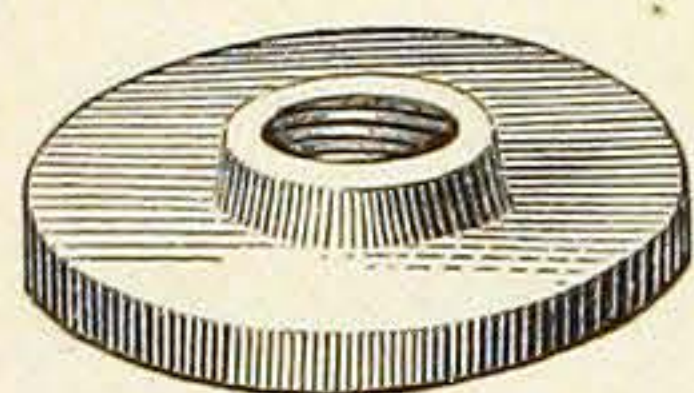
Fig. 24.





## FLANGES.

Fig. 25.



Common.



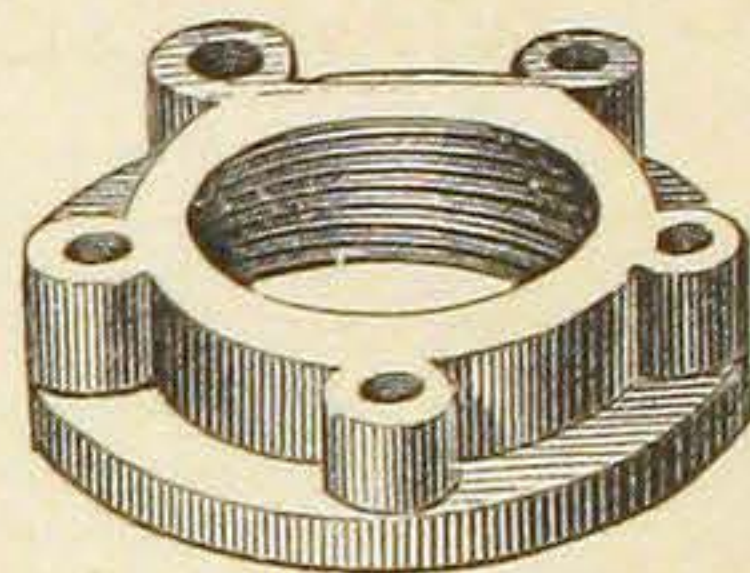
Curved.



Blank.



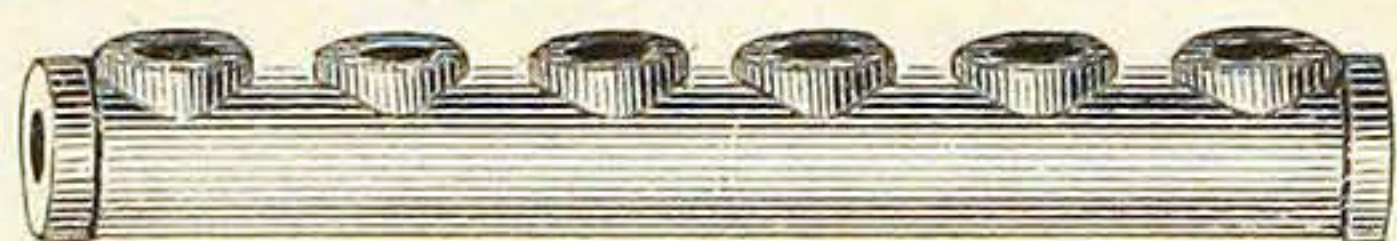
Oval.



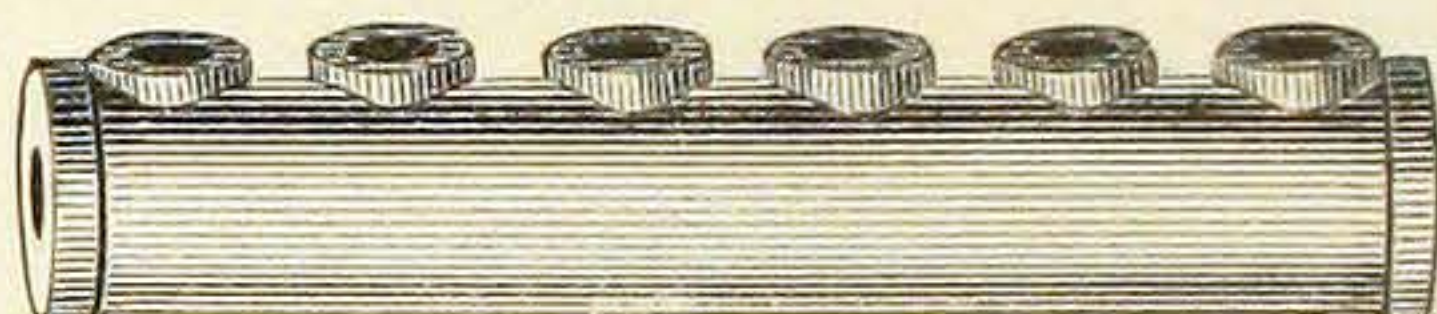
Bossed.

## BRANCH TEES.

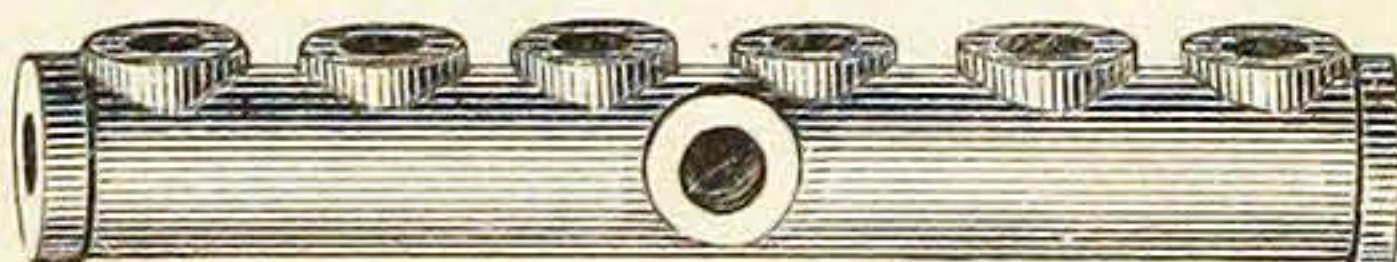
Fig. 26.



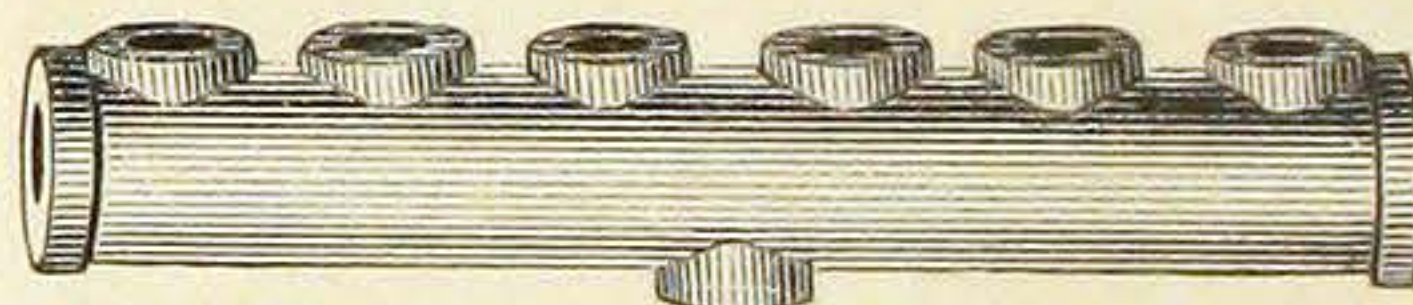
Plain.



Large Run.



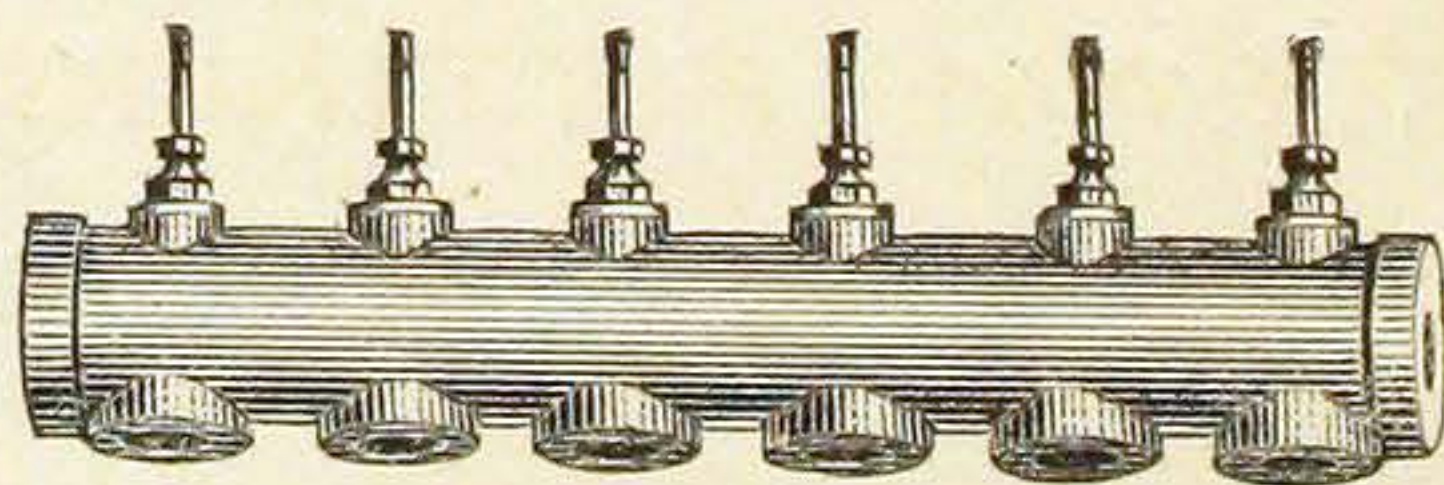
Side Outlet.



Back Outlet.

## MANIFOLD VALVE, BRANCH TEE.

Fig. 27.



Coil Stands.

Fig. 28.



Single Hook.

Fig. 29.



Single Ring.



Pipe Stand.

Fig. 30.



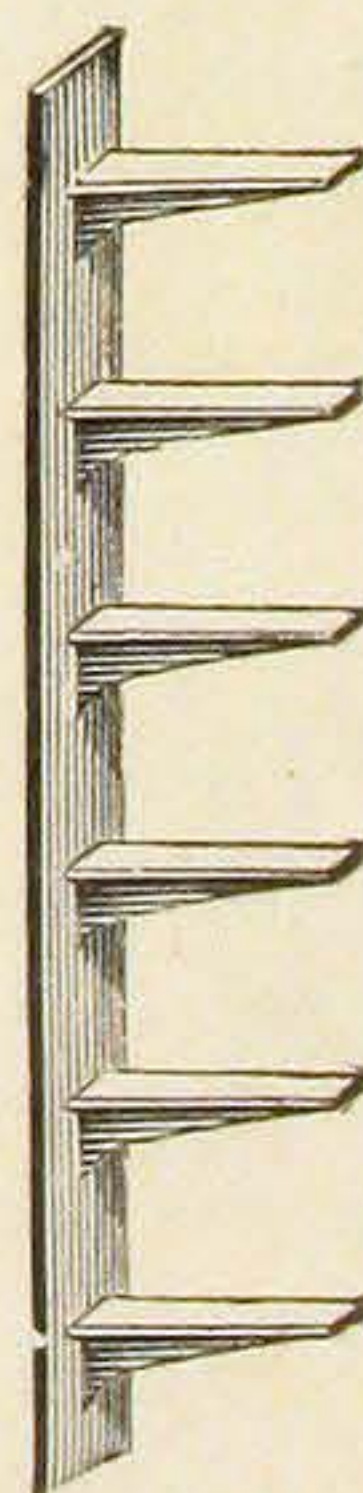
Hook Plate.

Fig. 31.



Exp. Plate.

Fig. 32.



Ring Plate.

Fig. 33.





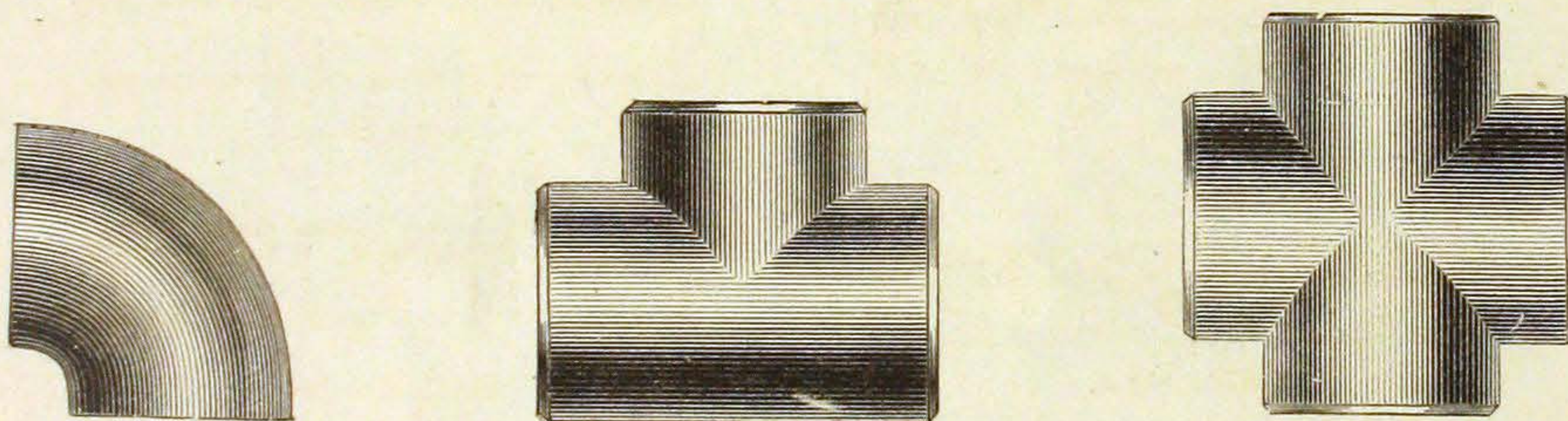
## MALLEABLE GAS AND STEAM FITTINGS.

SOLD BY THE POUND.

(SEE ILLUSTRATED SHEET OF MALLEABLE FITTINGS.)

### GAS FITTINGS.

Fig. 34.



### STEAM FITTINGS.

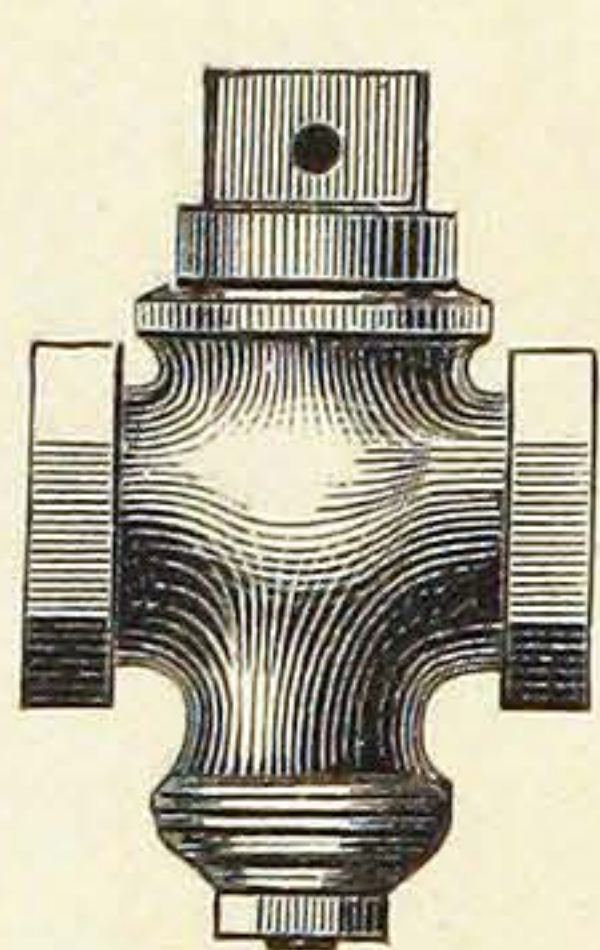


A FULL ASSORTMENT OF  
Galvanized, Rubber Coated, and Black Enameled  
Fittings always on hand.

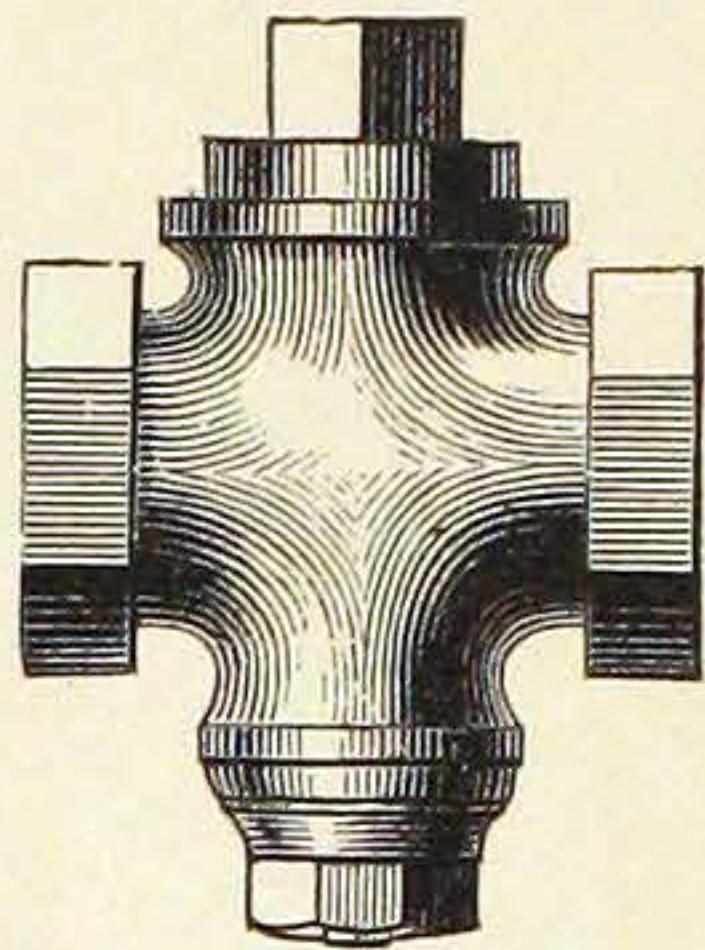


## IRON COCKS.

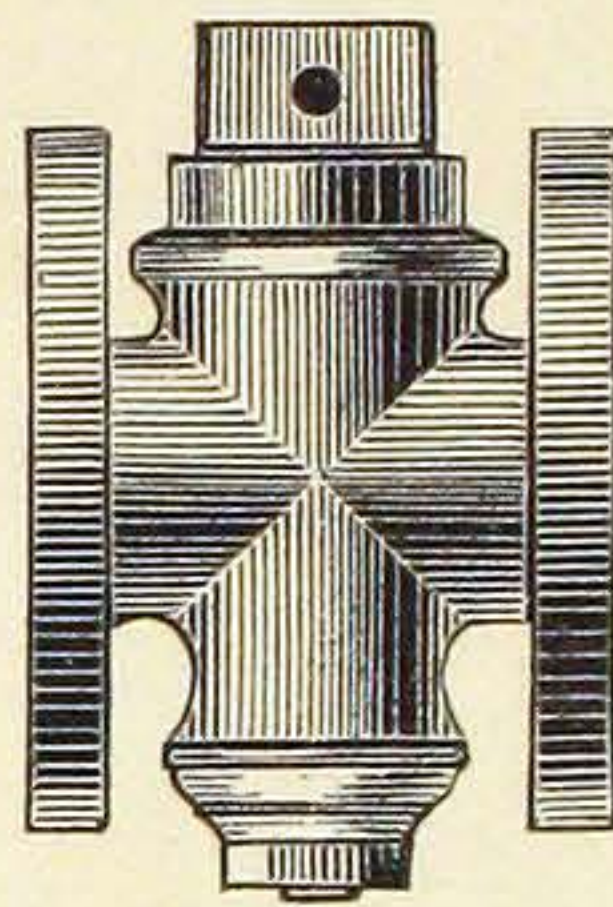
Fig. 35.



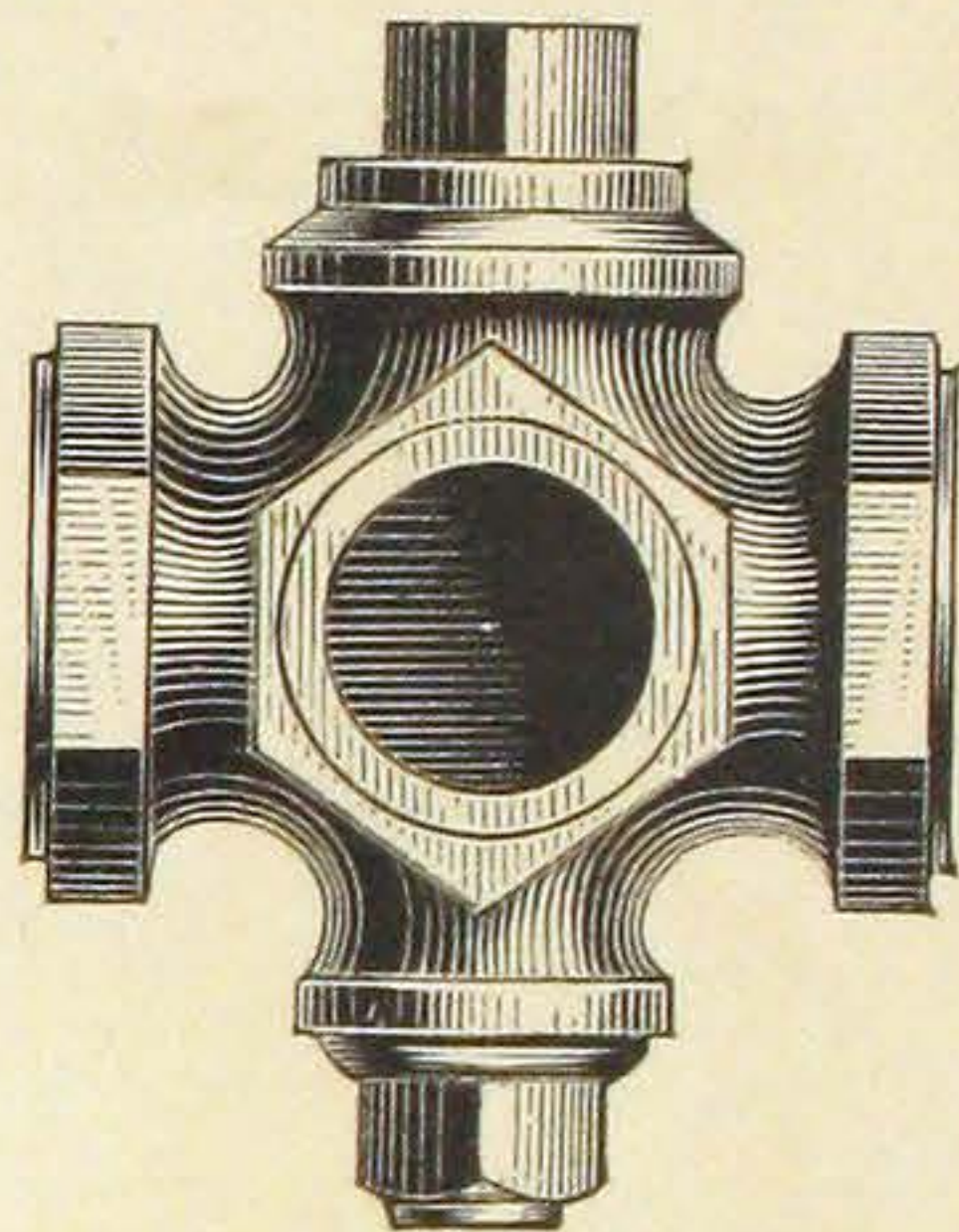
Flat Head.



Square Head.

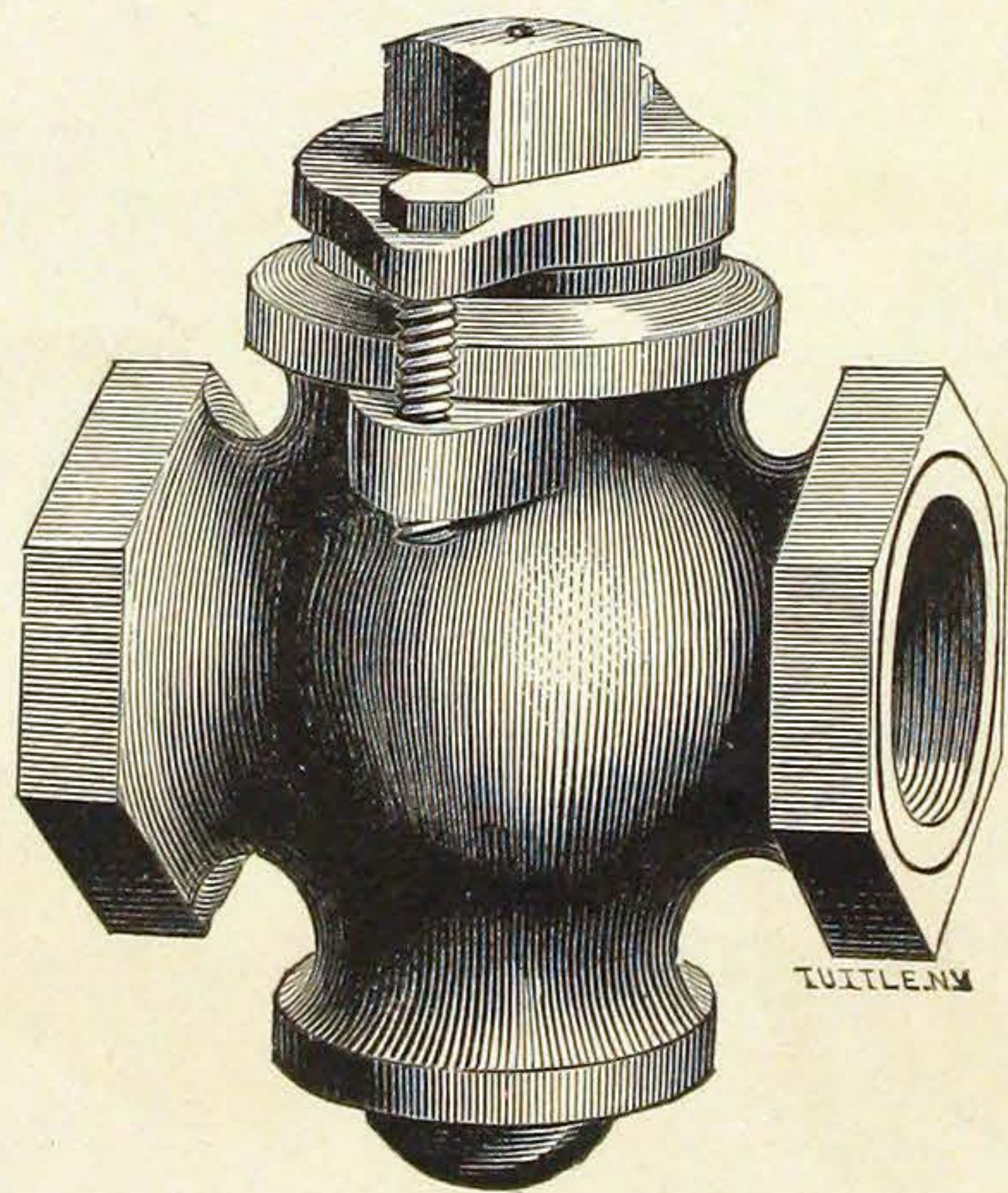


Flanged.



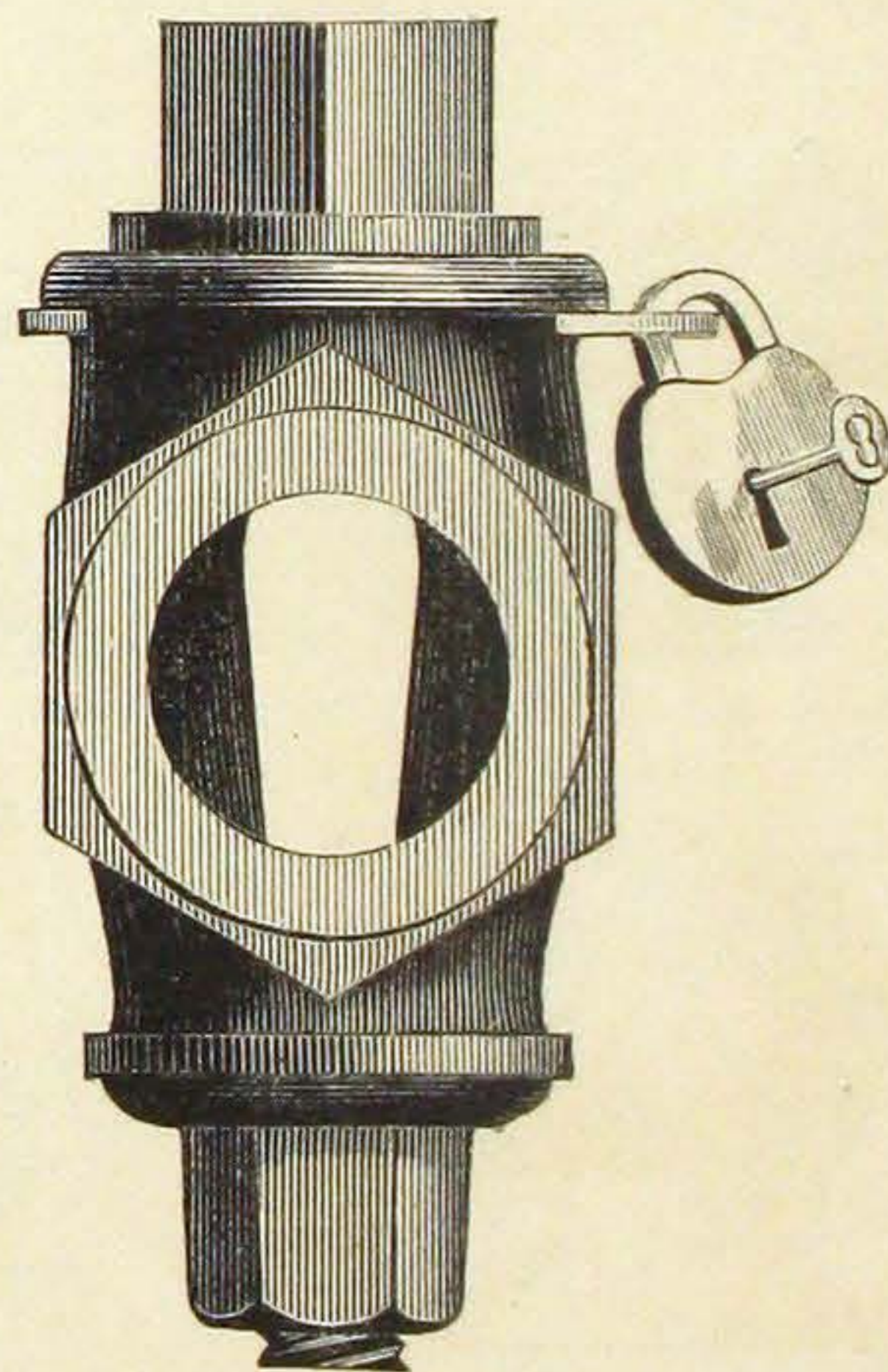
Three-Way.

Jones' Patent Cock.  
(Plug held in by Plate.) Fig. 36.

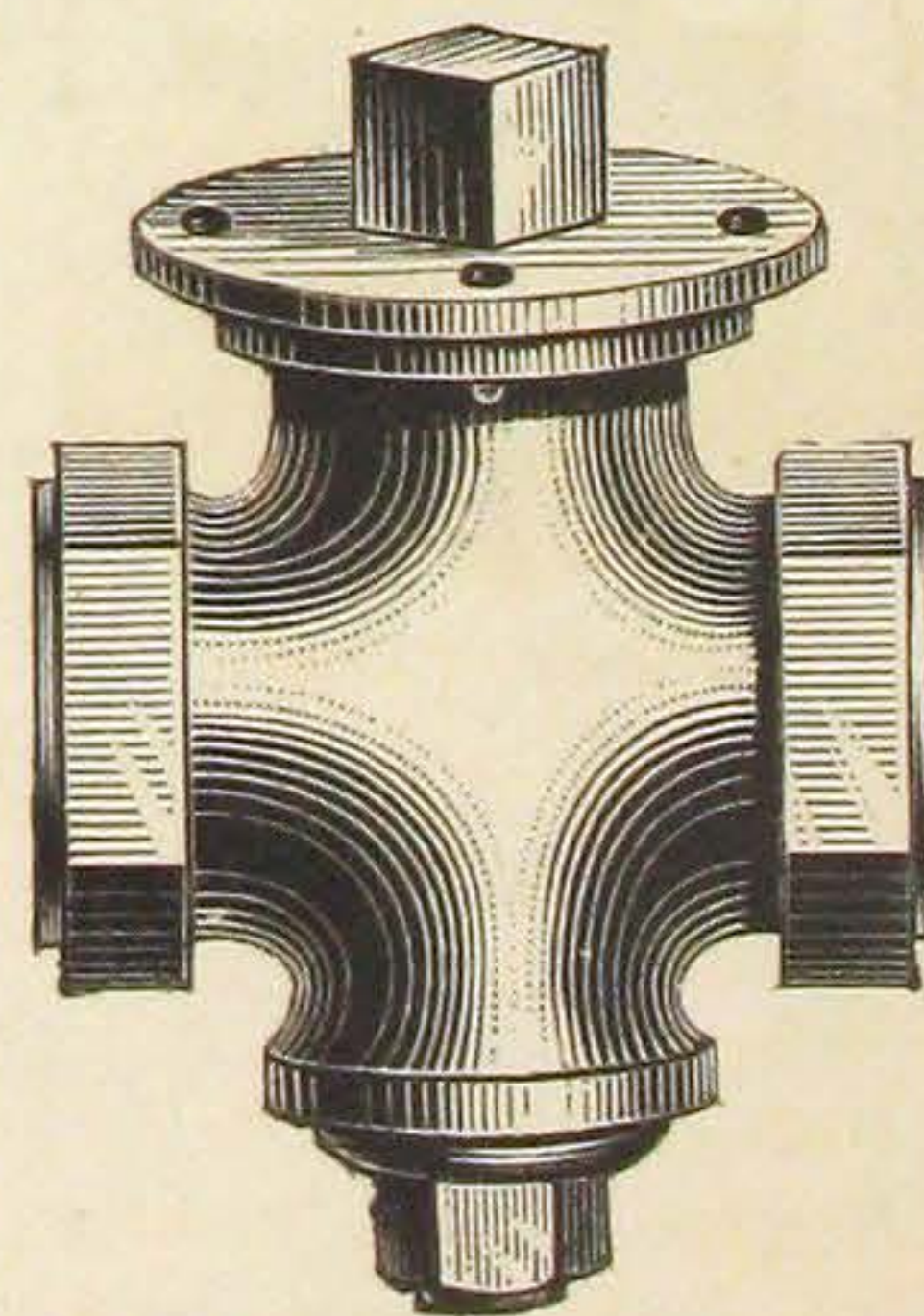
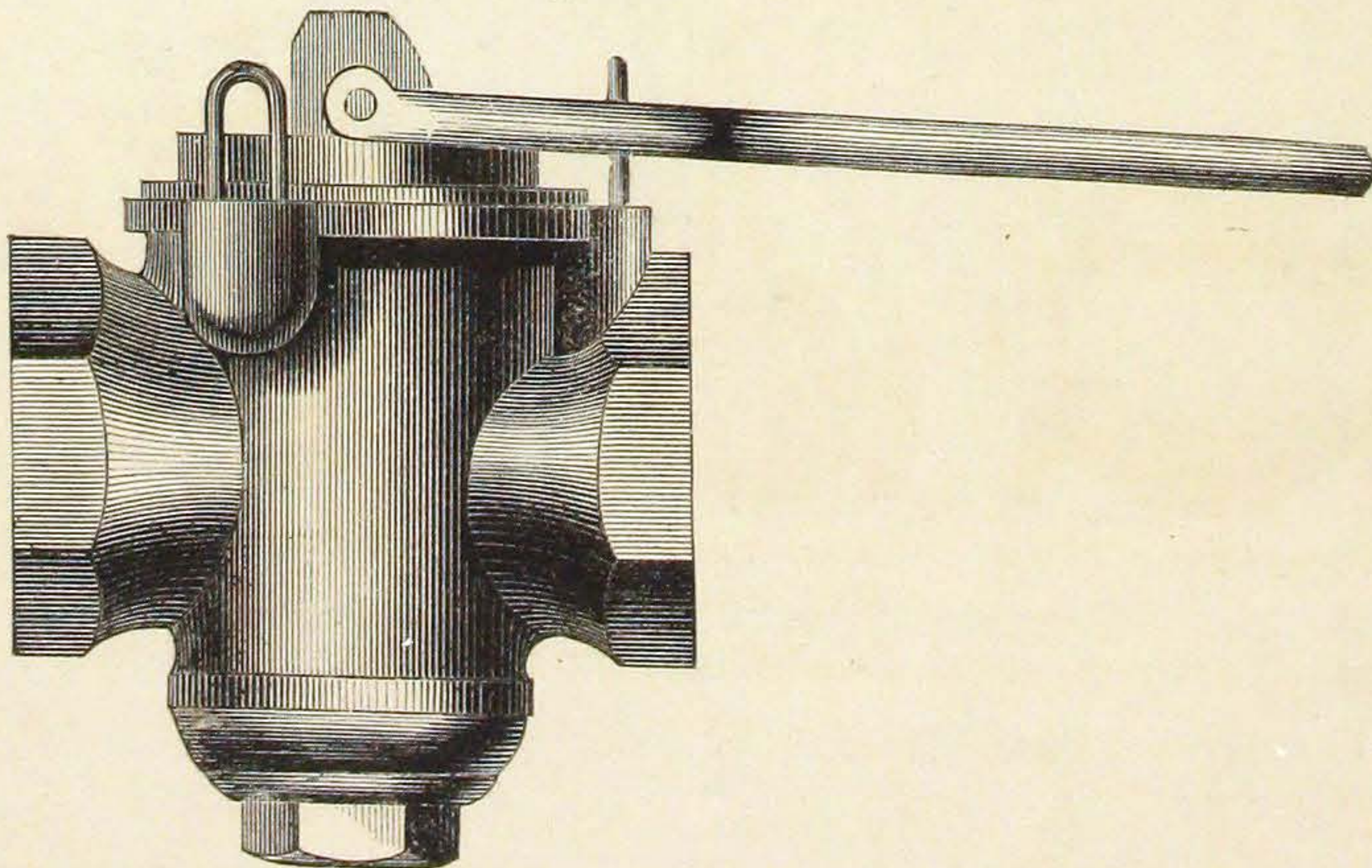


Patent Round Way Lock Cock.  
Fig. 38.

Essex's Patent Lock Cock.  
Fig. 37.



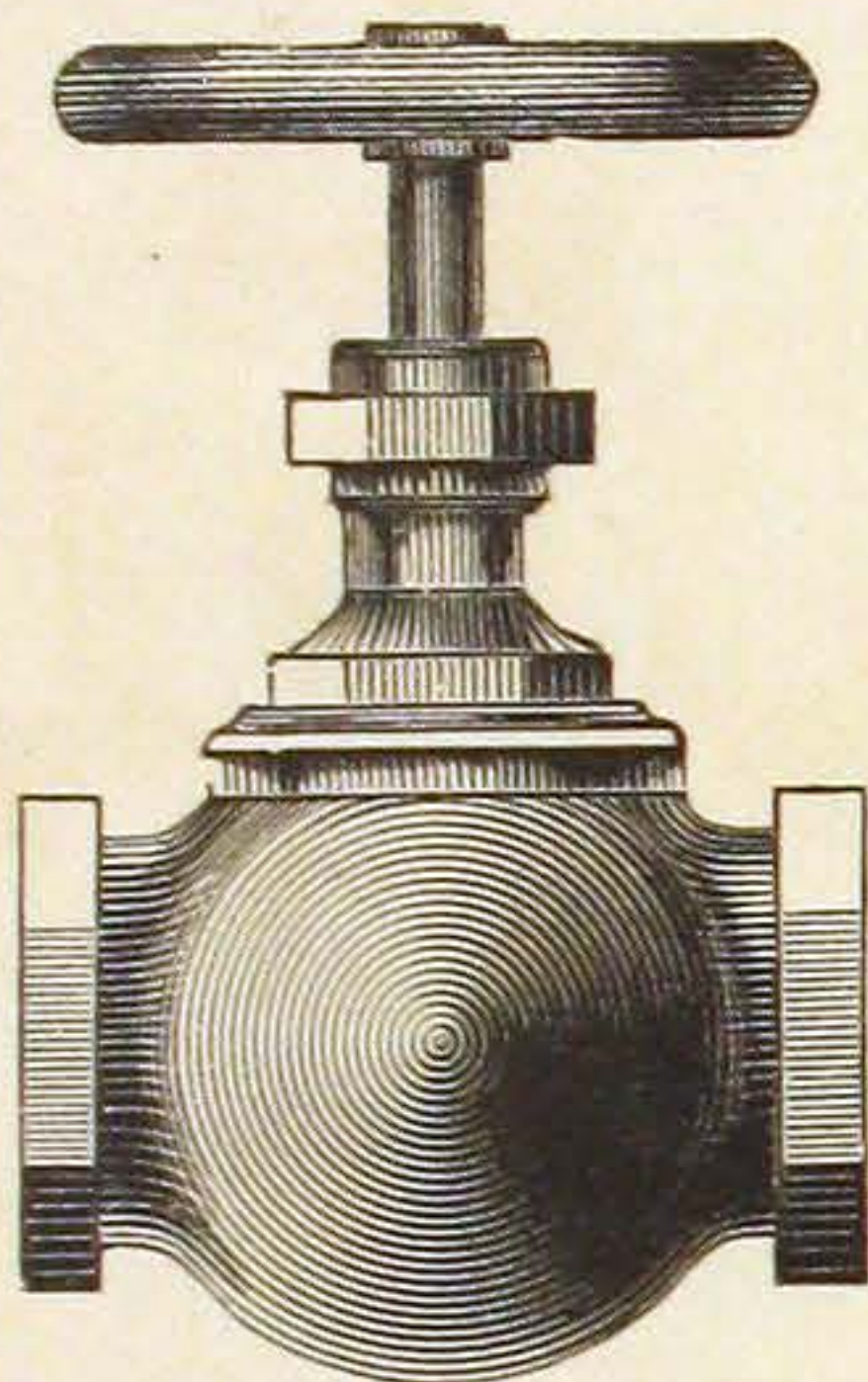
Erie Lock Cock.  
Fig. 39.





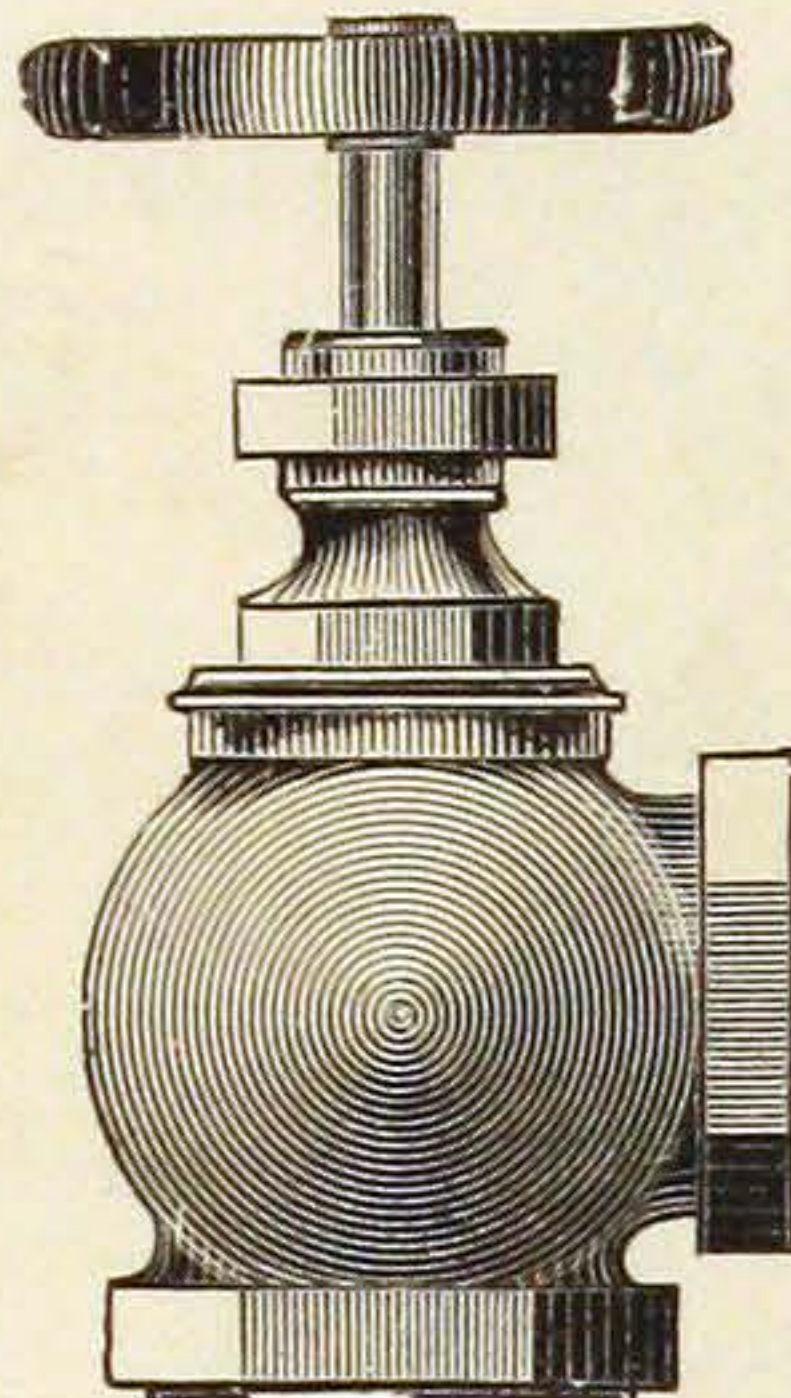
IRON BODY, BRASS MOUNTED VALVES.

Fig. 40.



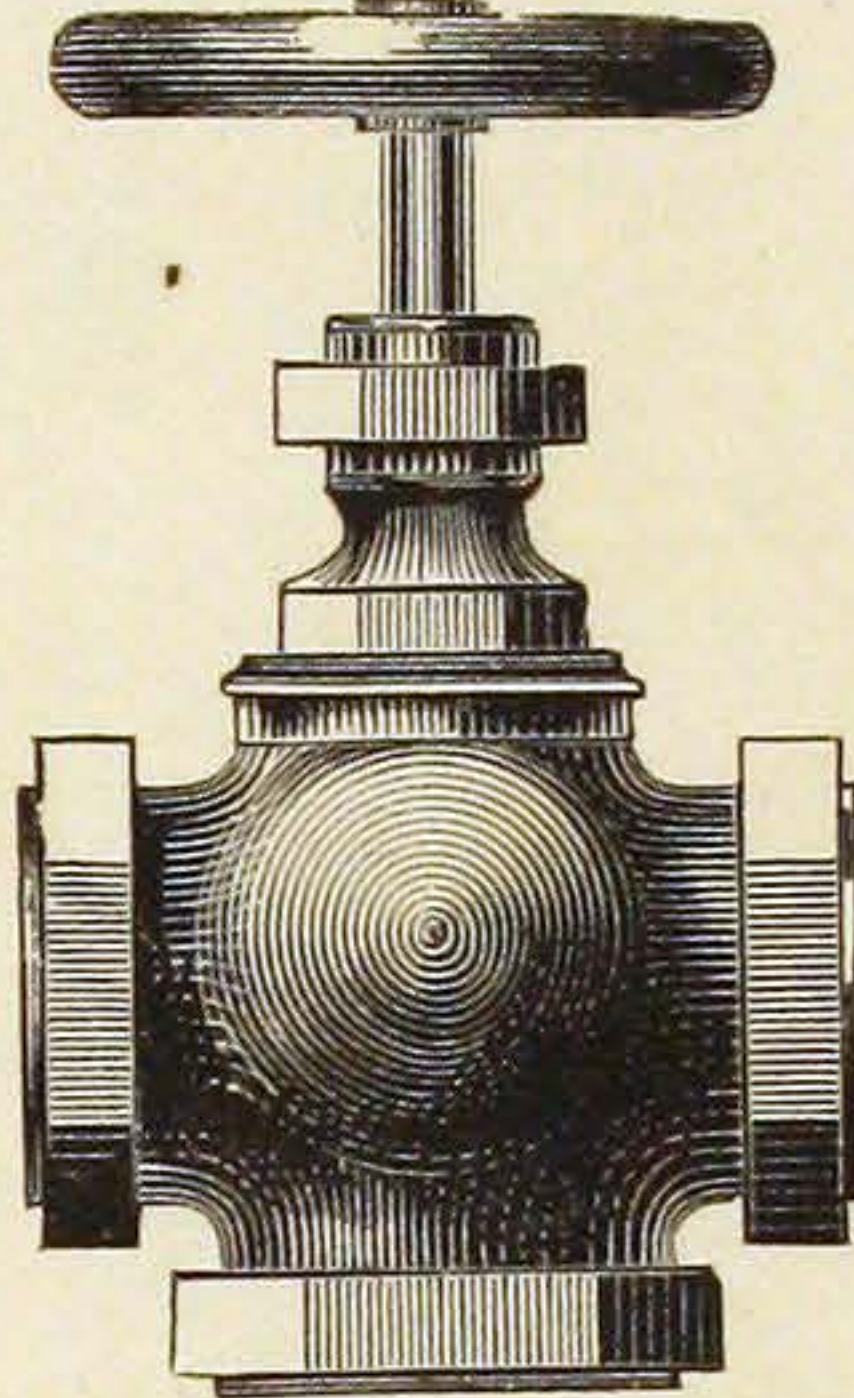
Globe Valve.

Fig. 41.



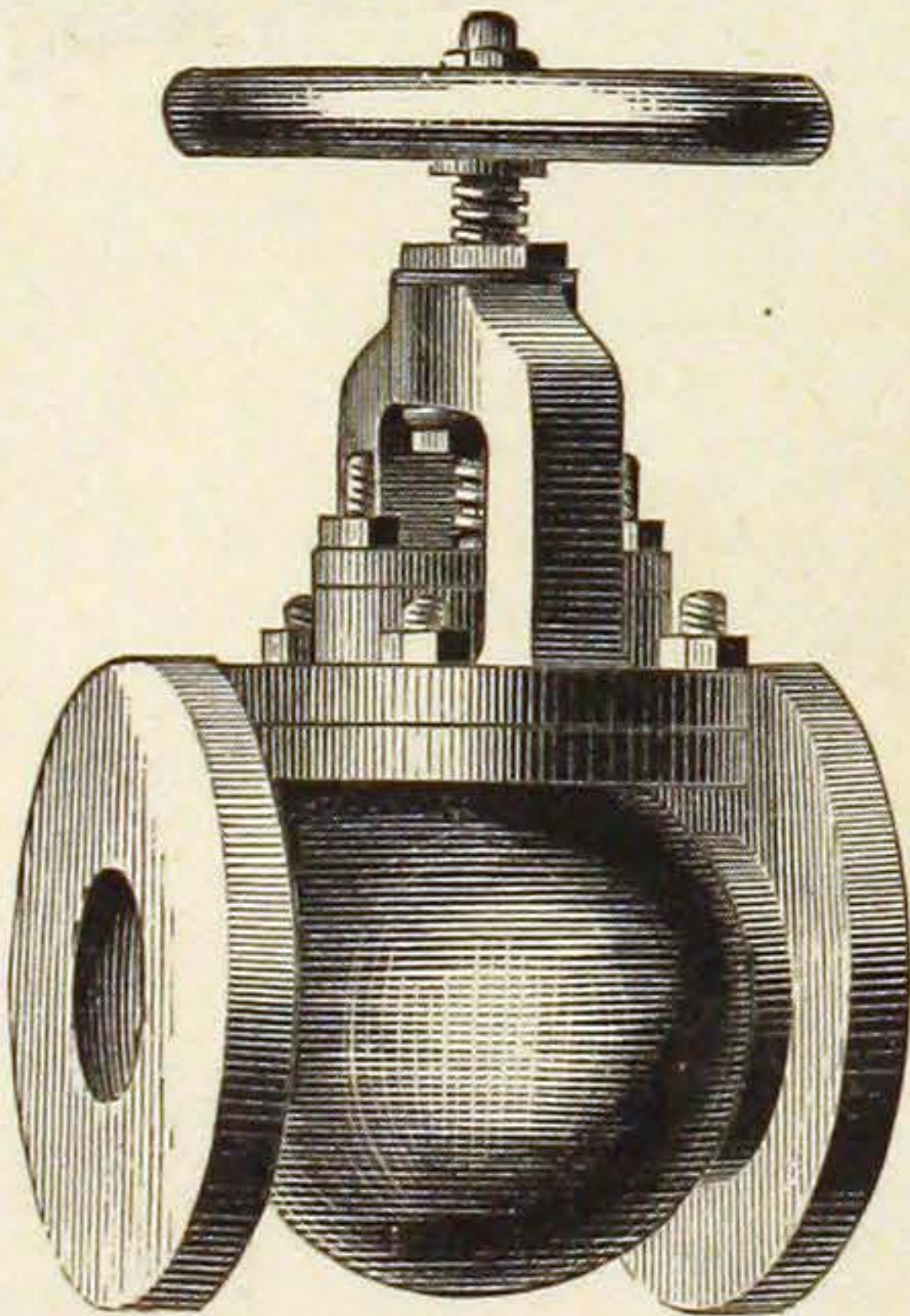
Angle Valve.

Fig. 42.



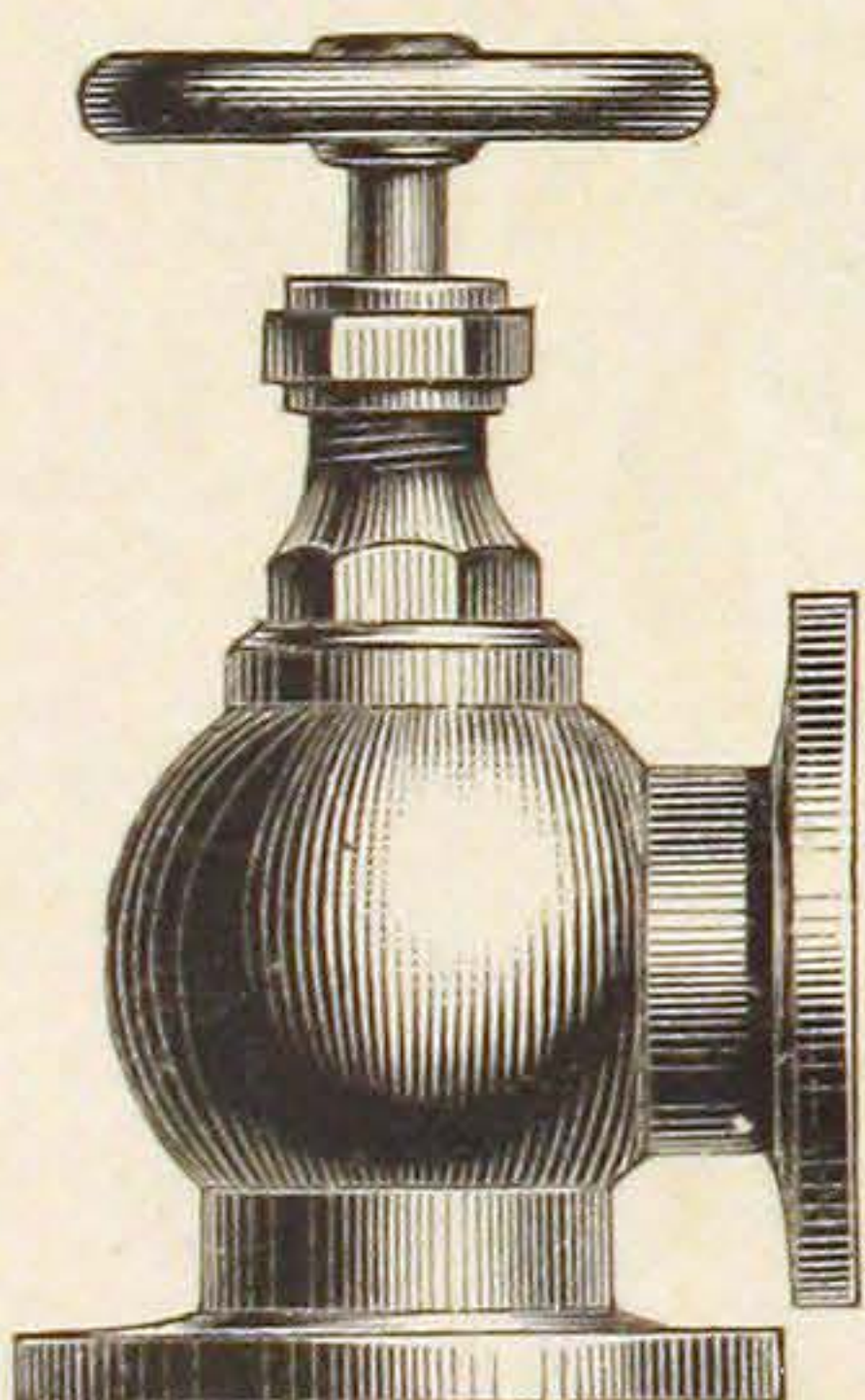
Cross Valve.

Fig. 44.



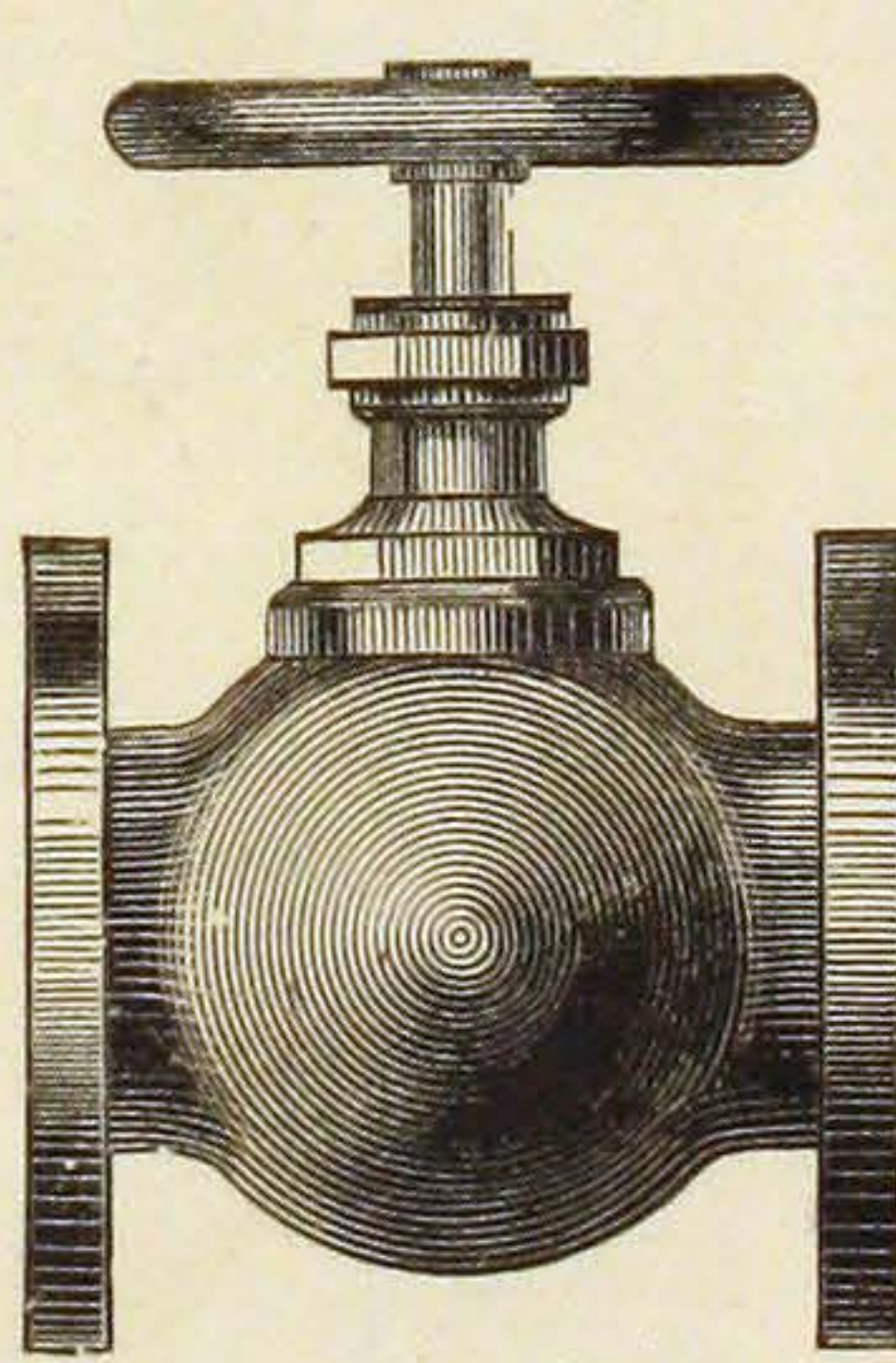
Flanged Globe Valve, with Yoke.

Fig. 43.



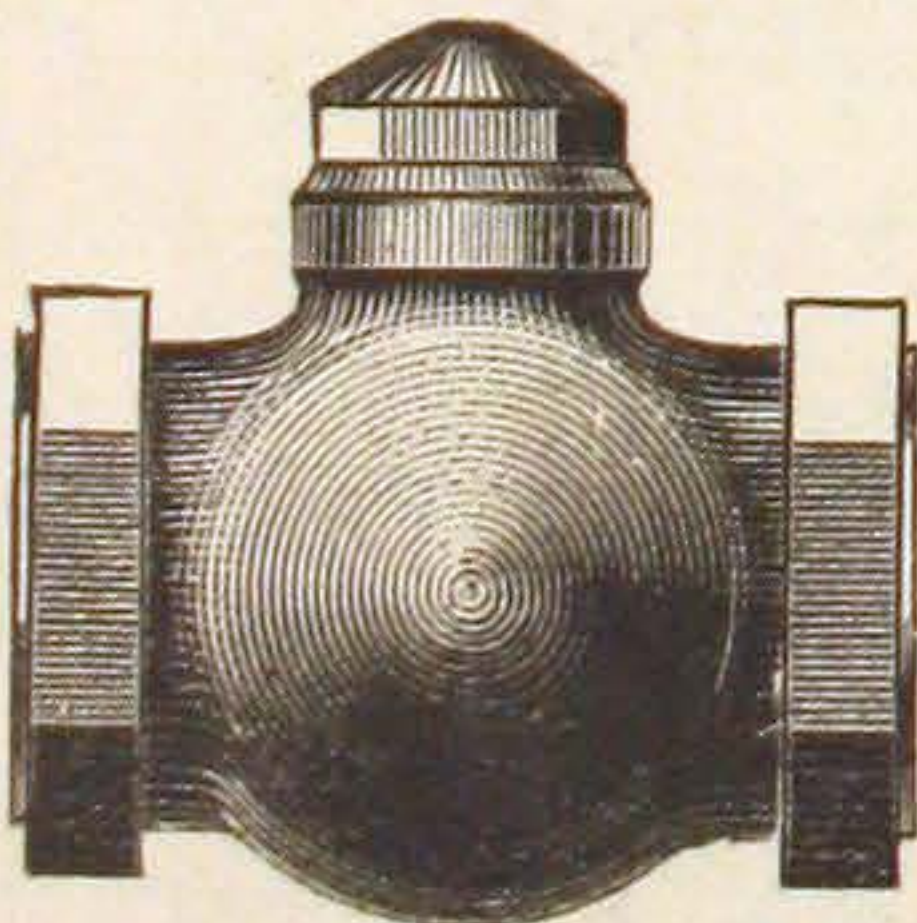
Flanged Angle Valve.

Fig. 45.



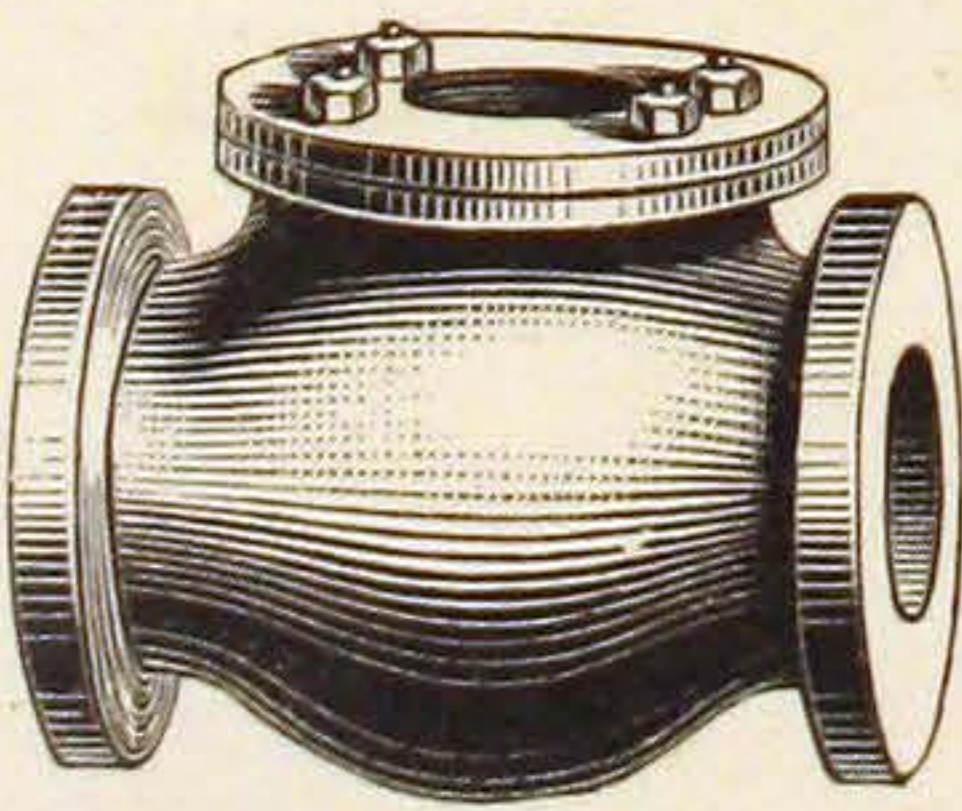
Flanged Globe Valve.

Fig. 46.



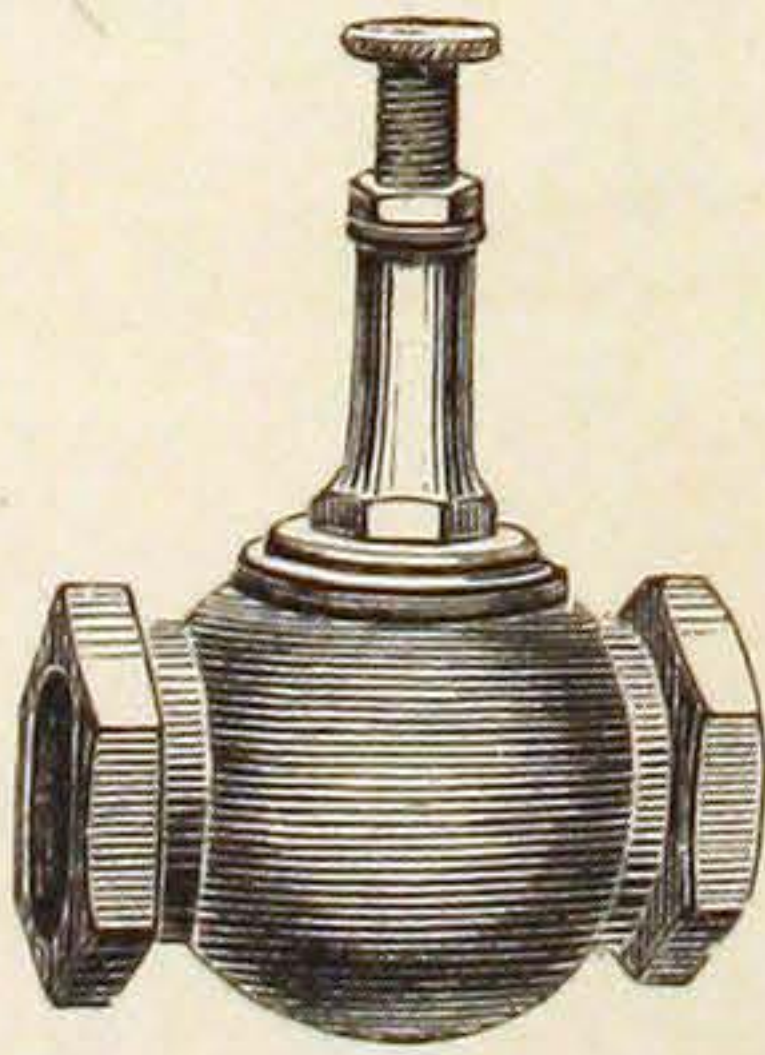
Check Valve.

Fig. 47.



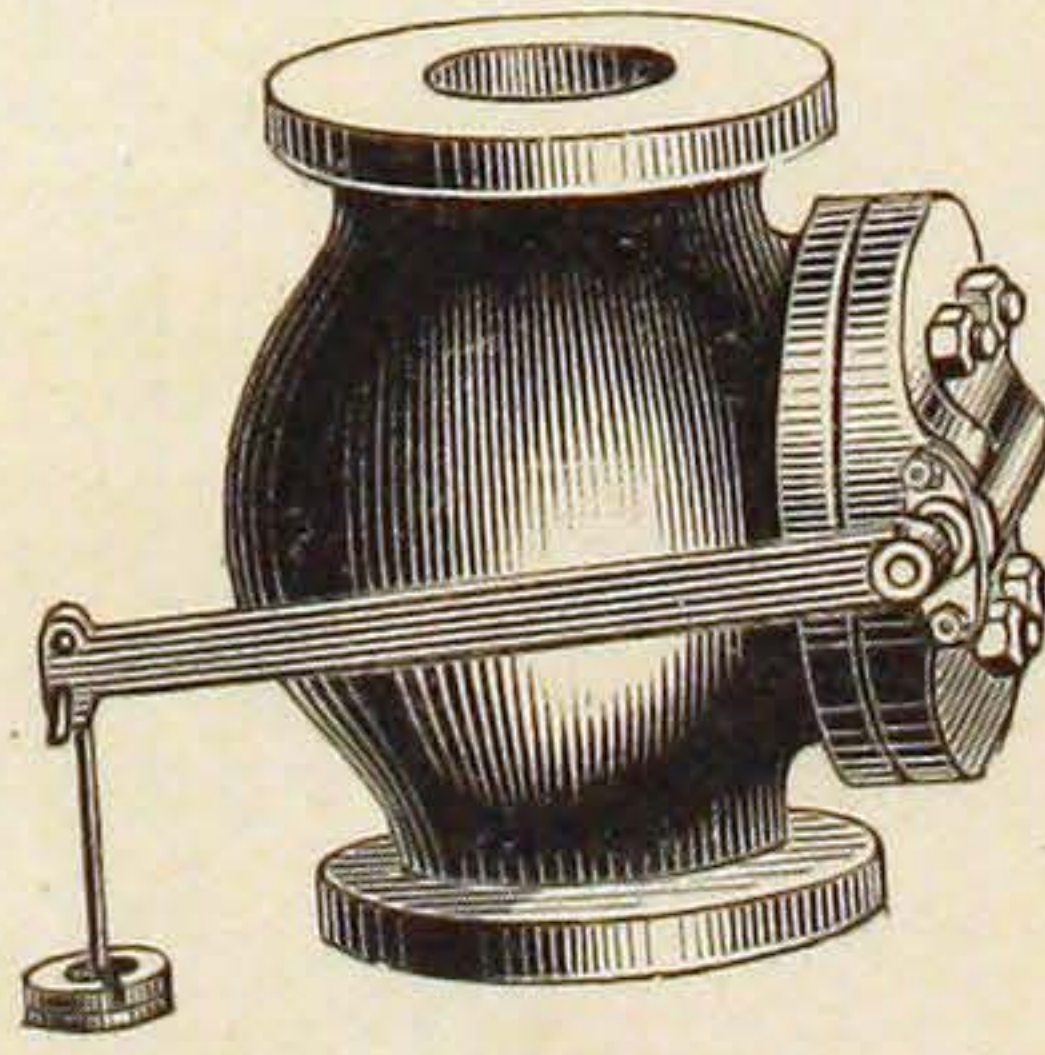
Flanged Check Valve.

Fig. 48.



Back Pressure Valve, with Spring.

Fig. 49.



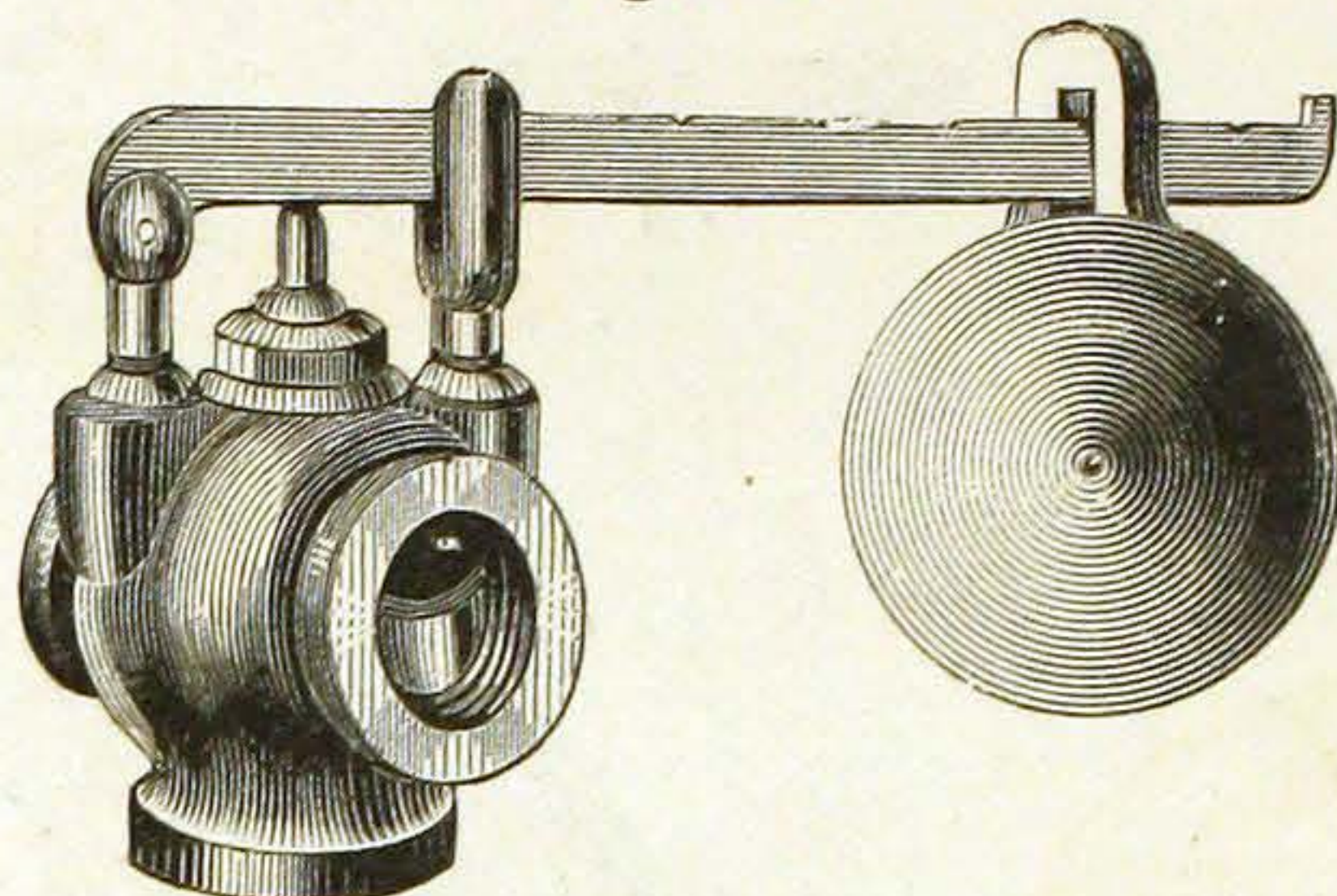
Back Pressure Valve.

Standard Sizes of Flanges, and Distance from Face to Face.

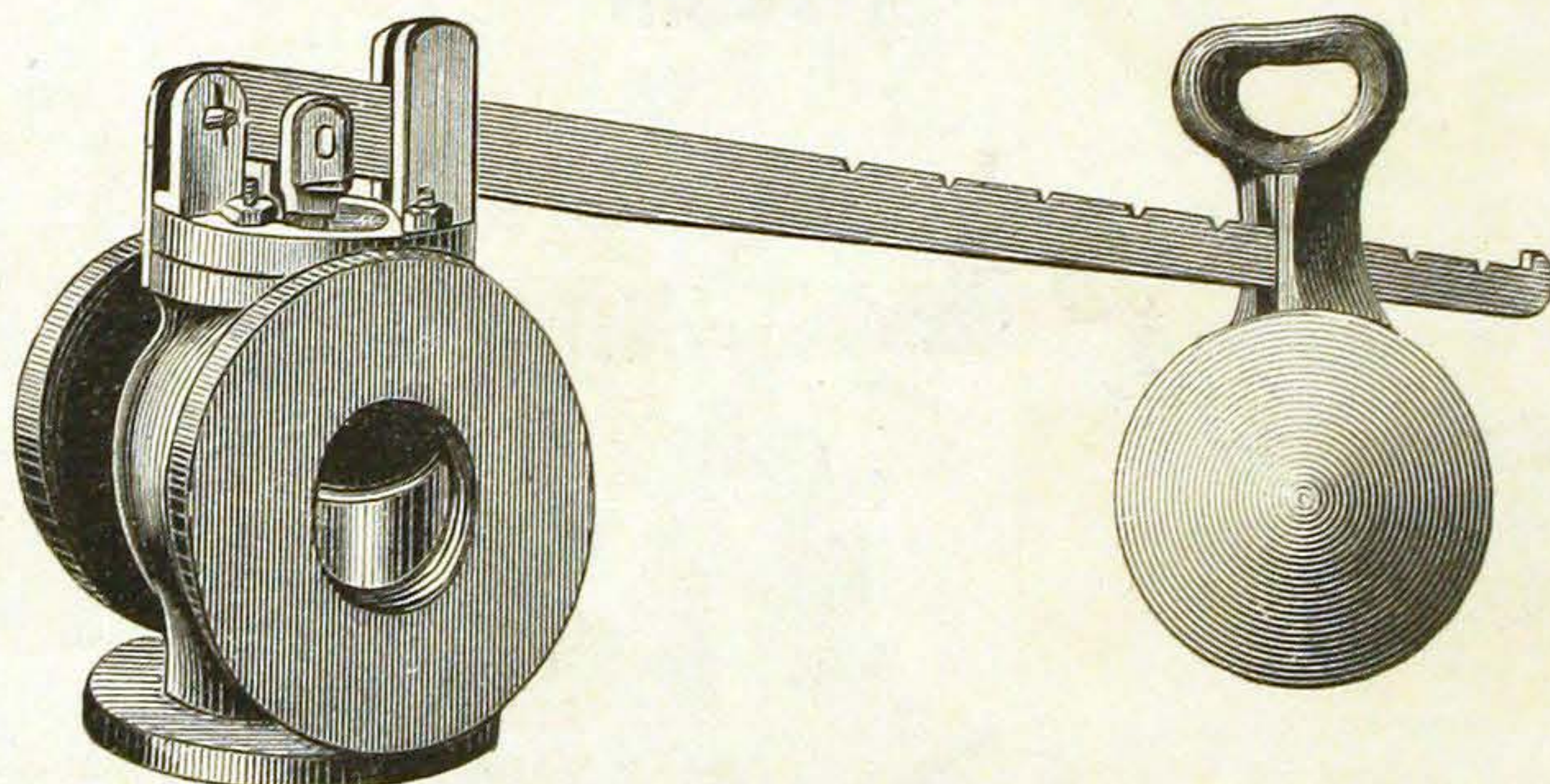
Size,	1½	2	2½	3	3½	4	5	6	8
Diam. of Flange,	5½	6½	7	8	9	10	11	12	14
Dis. from face to face,	4½	5¼	6¾	7¾	9½	11	12	13¾	16½



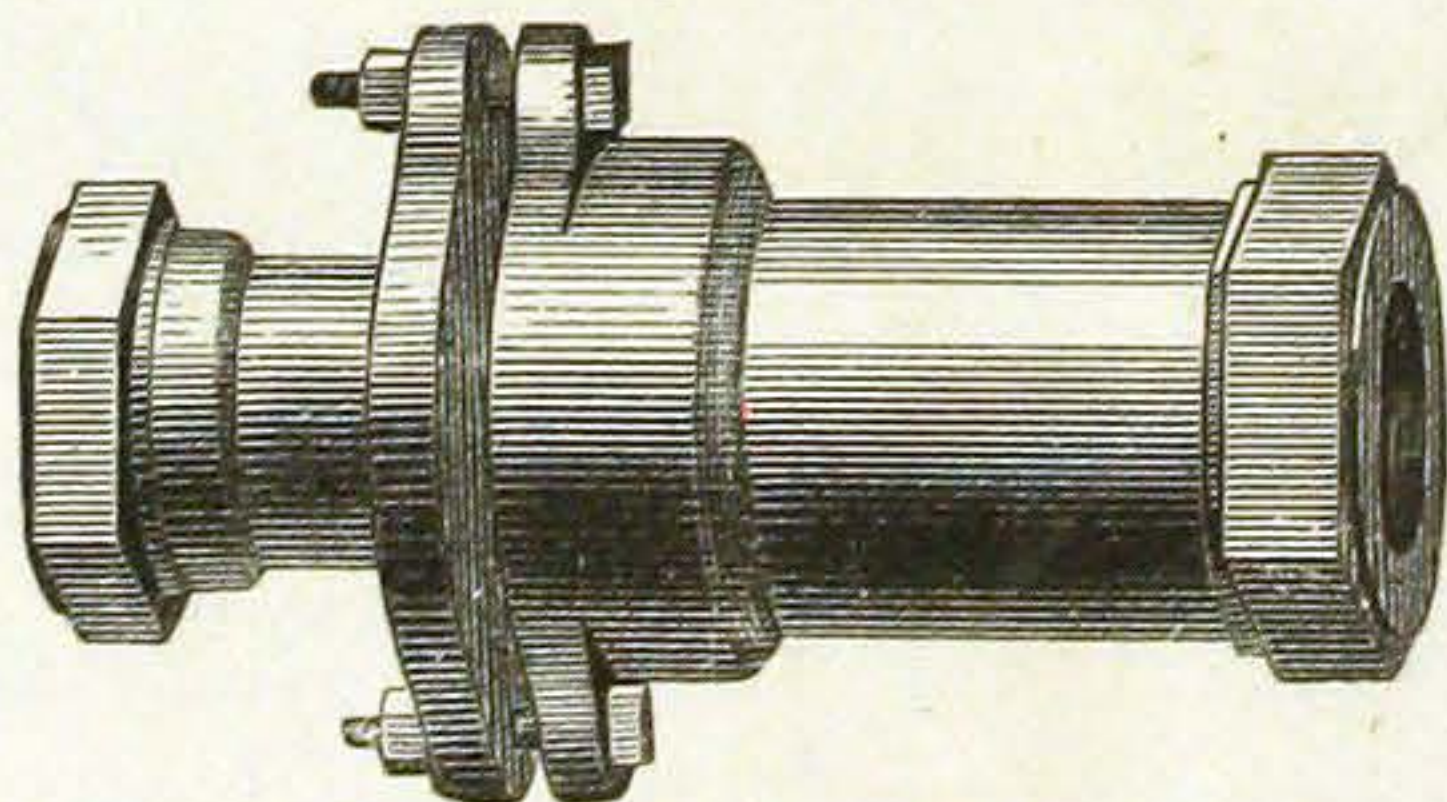
## IRON BODY, BRASS MOUNTED VALVES, &amp;c.

**Fig. 50.**

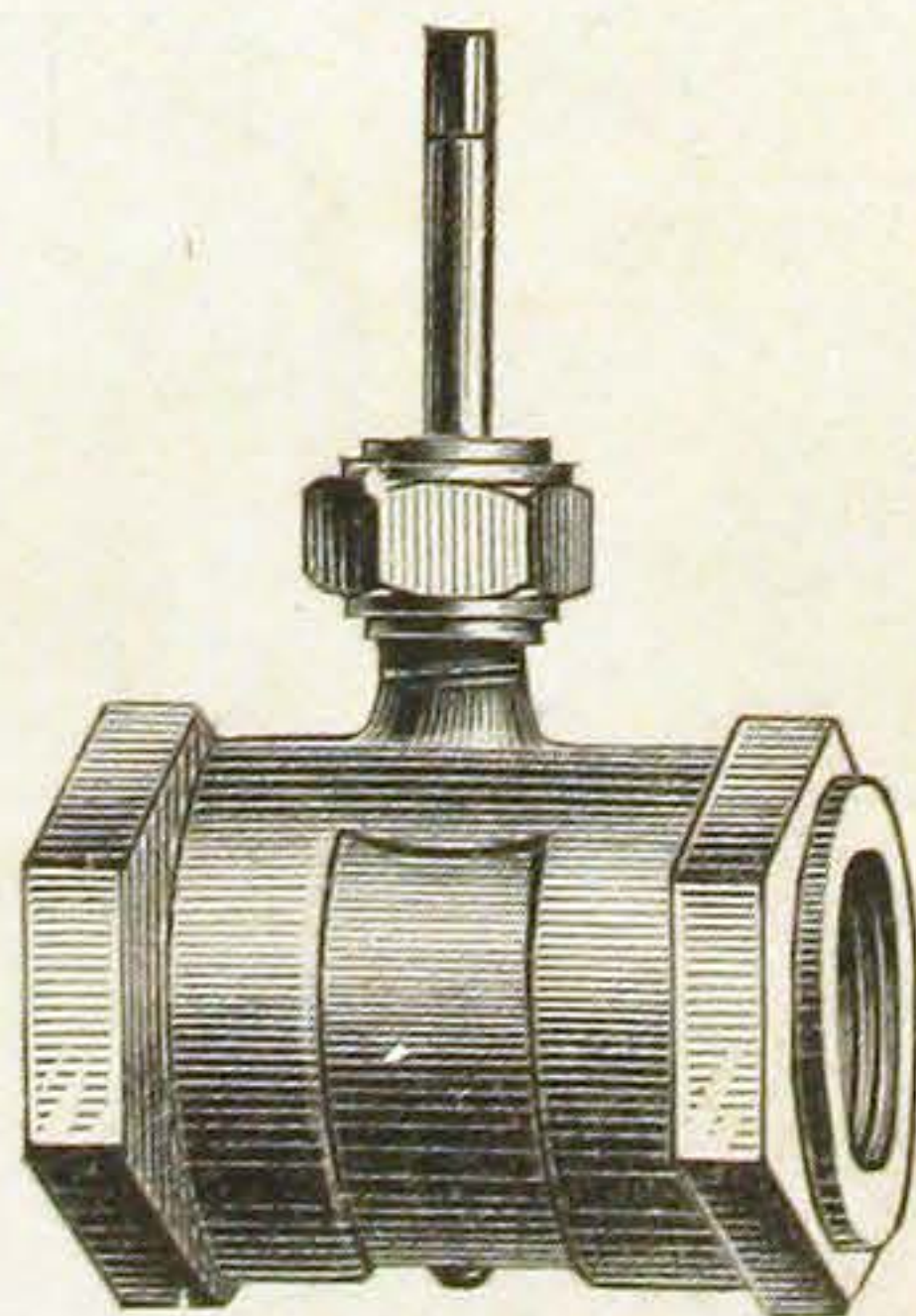
Safety Valve.

**Fig. 51.**

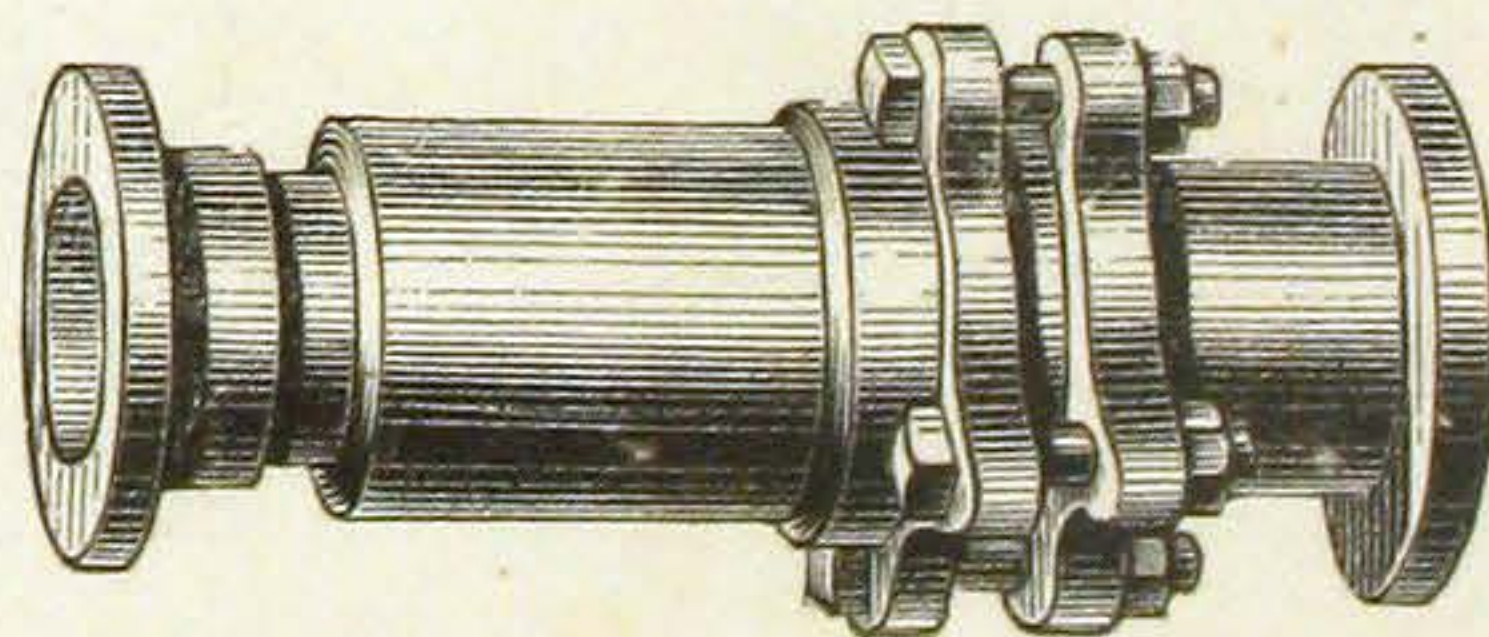
Flanged Safety Valve.

**Fig. 52.**

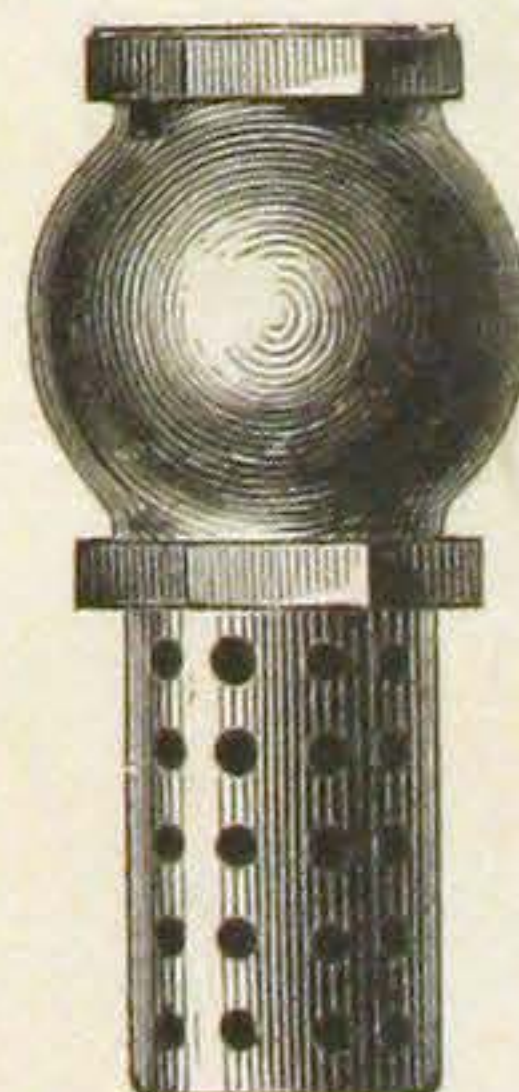
Expansion Joint.

**Fig. 54.**

Throttle Valve.

**Fig. 53.**

Flanged Expansion Joint.

**Fig. 55.**

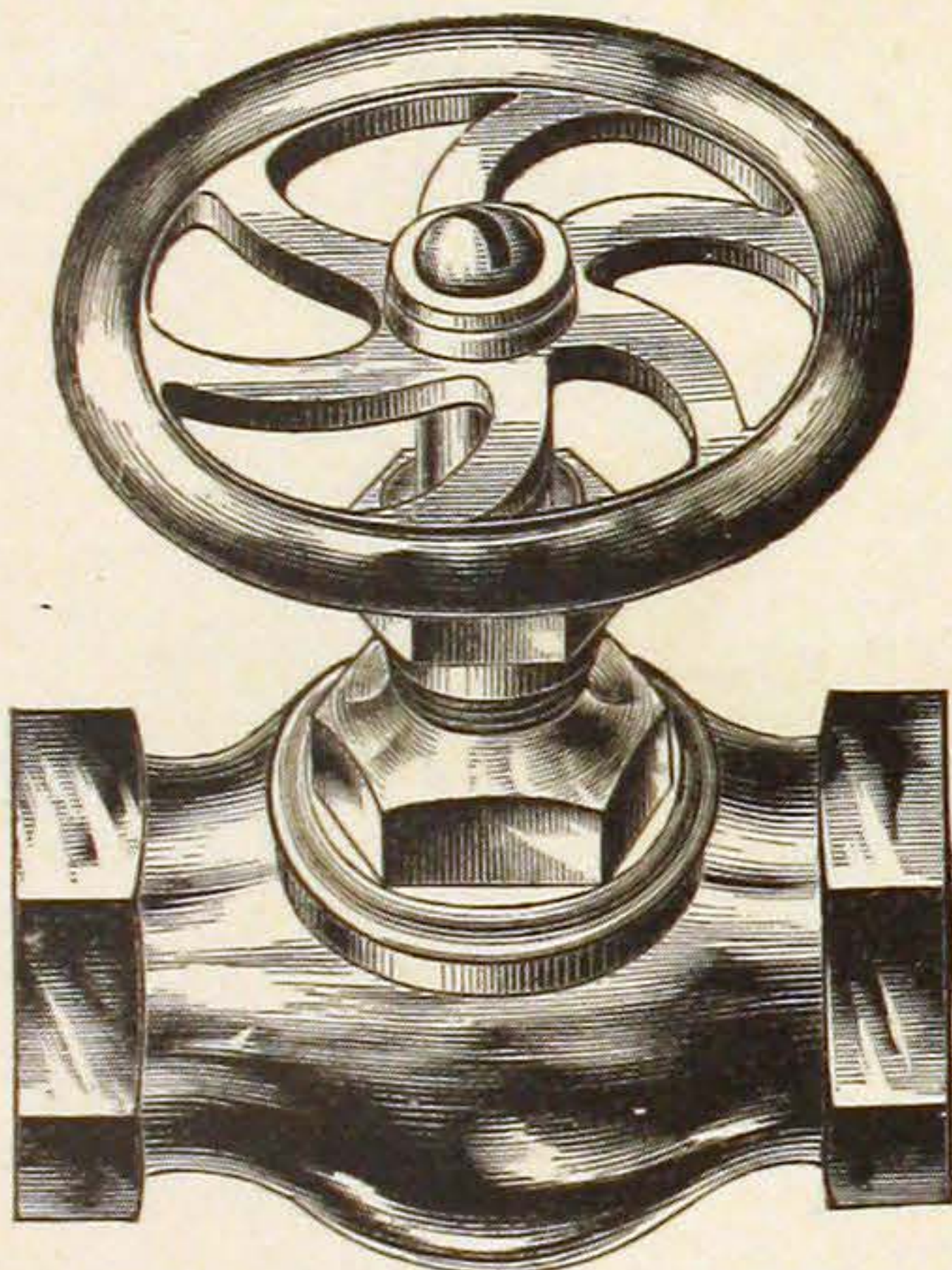
Foot Valve with Strainer.



## FINISHED RADIATOR VALVES.

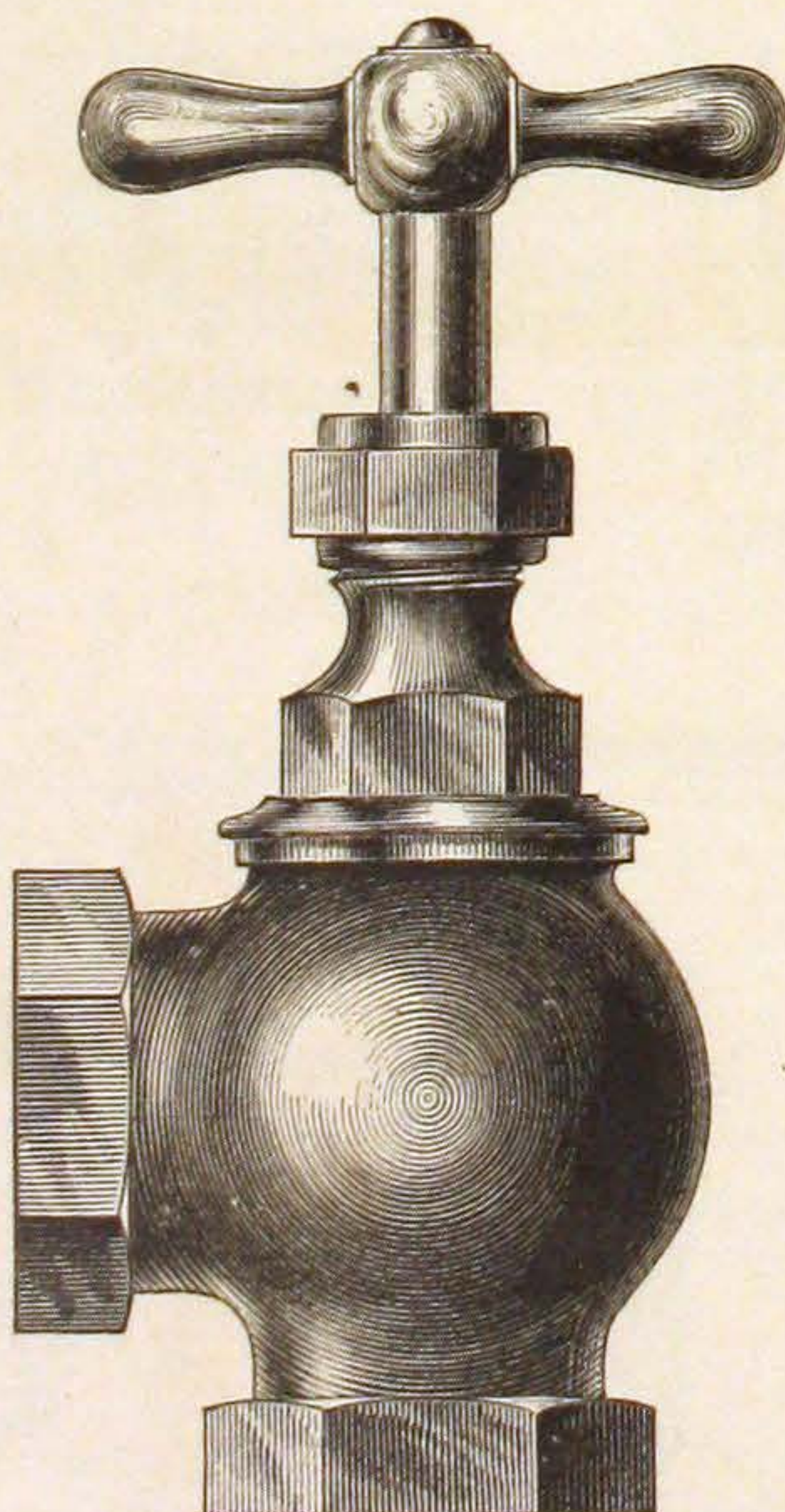
Plain or Nickel Plated.

**Fig. 56.**



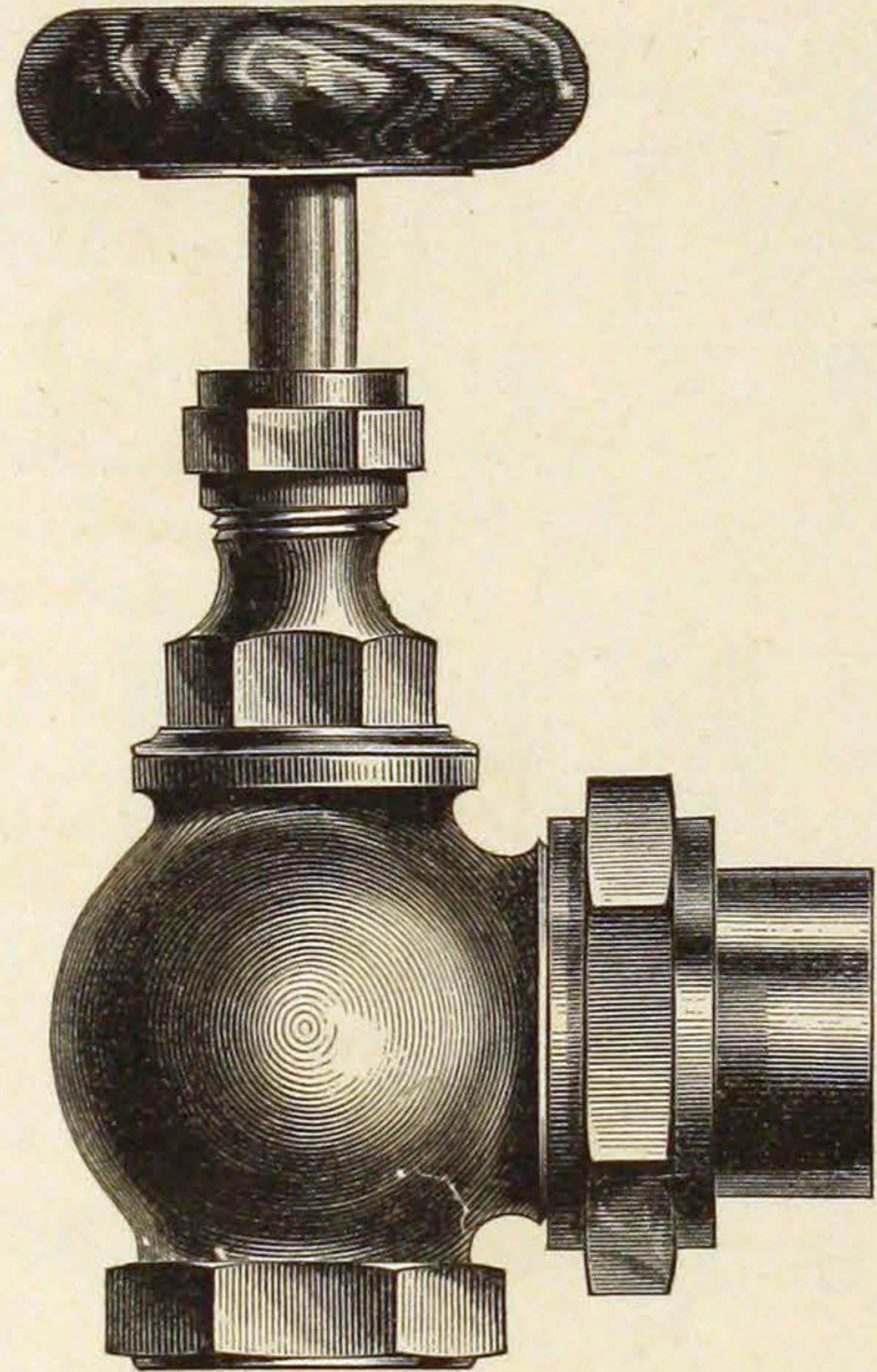
Globe Valve, Finished Wheel.

**Fig. 58.**



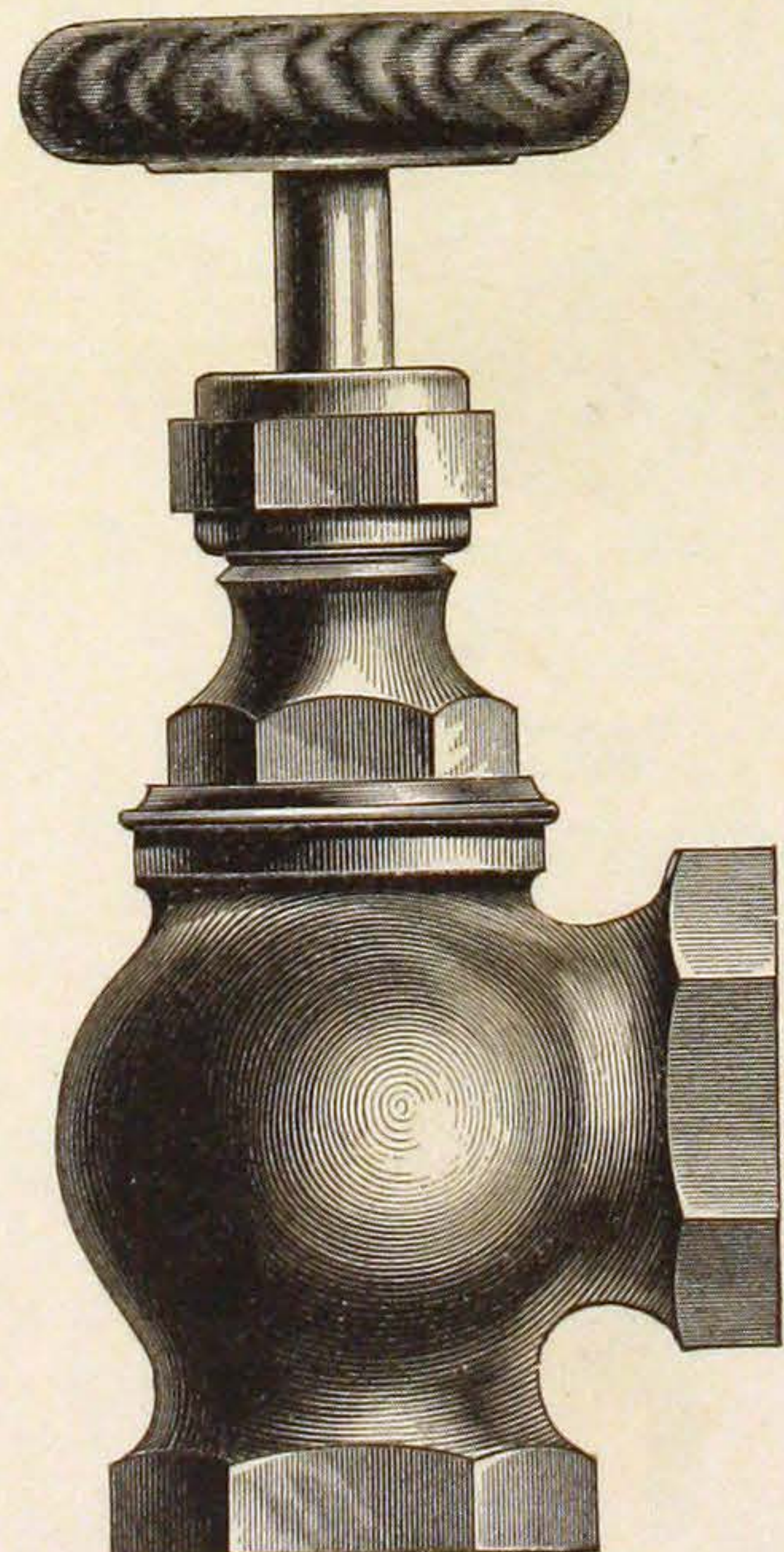
Angle Valve, T Handle.

**Fig. 57.**



Angle Valve, with Union, Male or Female.

**Fig. 59.**

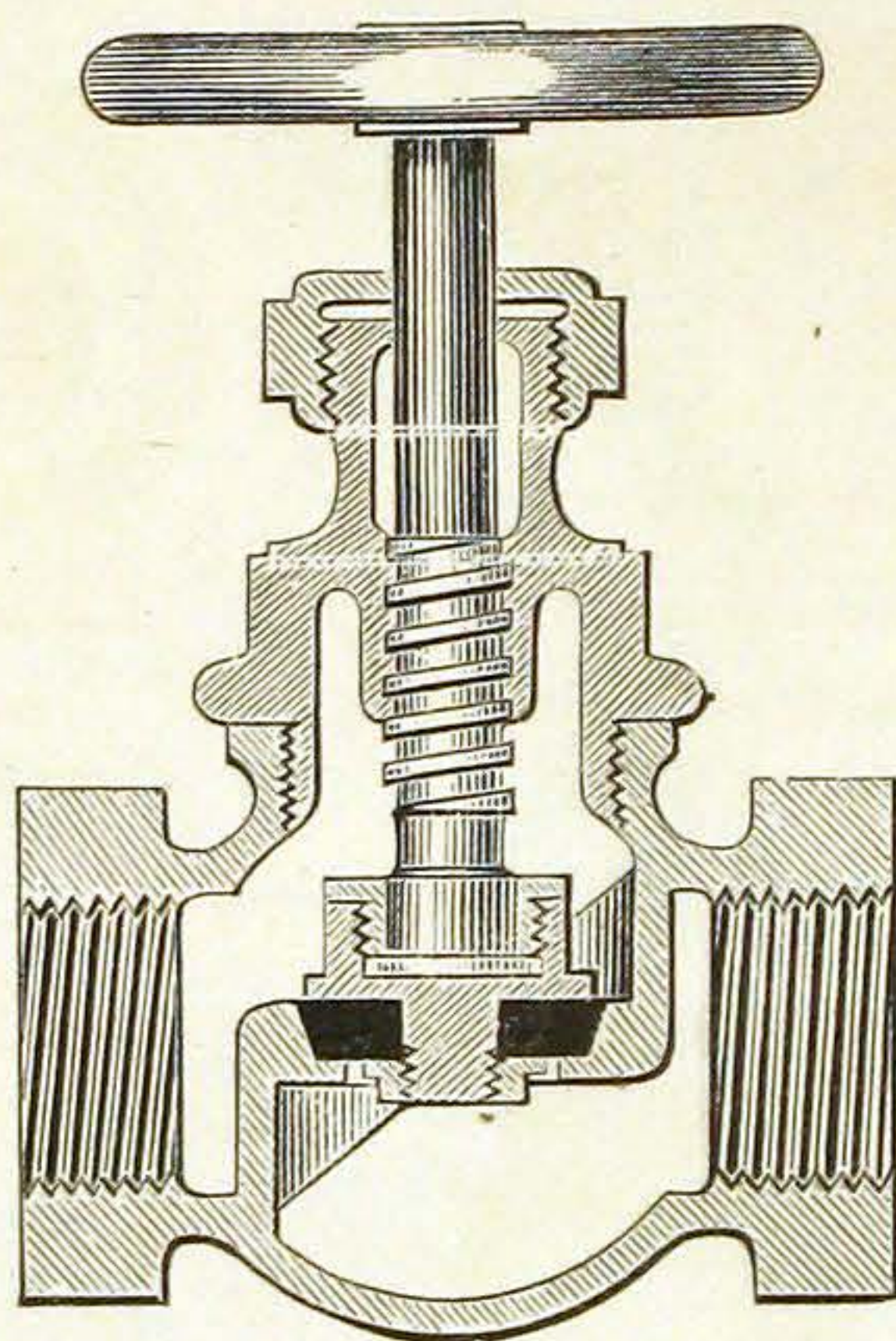


Angle Valve, Wood Wheel.



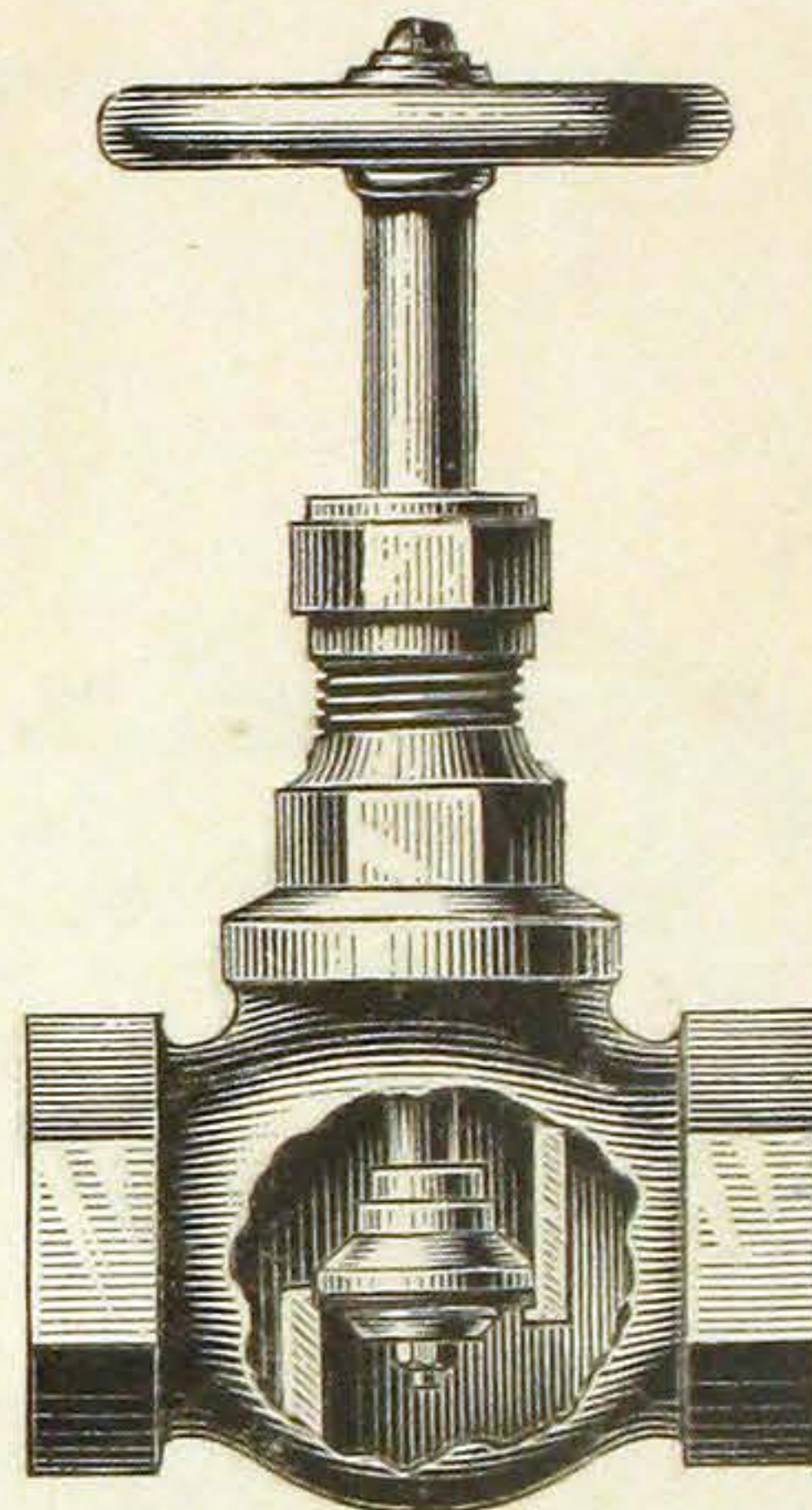
## BRASS VALVES.

Fig. 60.



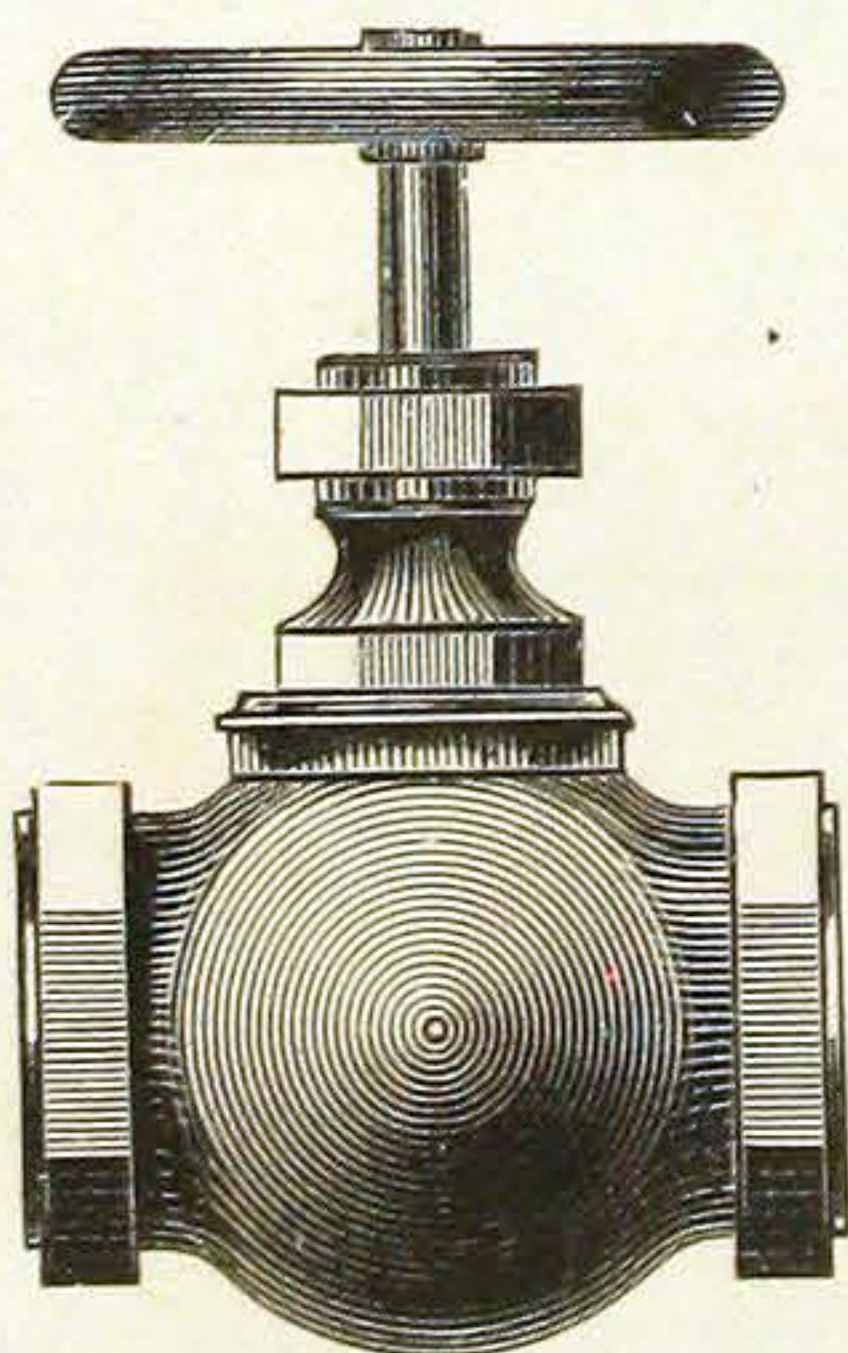
Jenkins' Pat. Globe Valve.

Fig. 61.



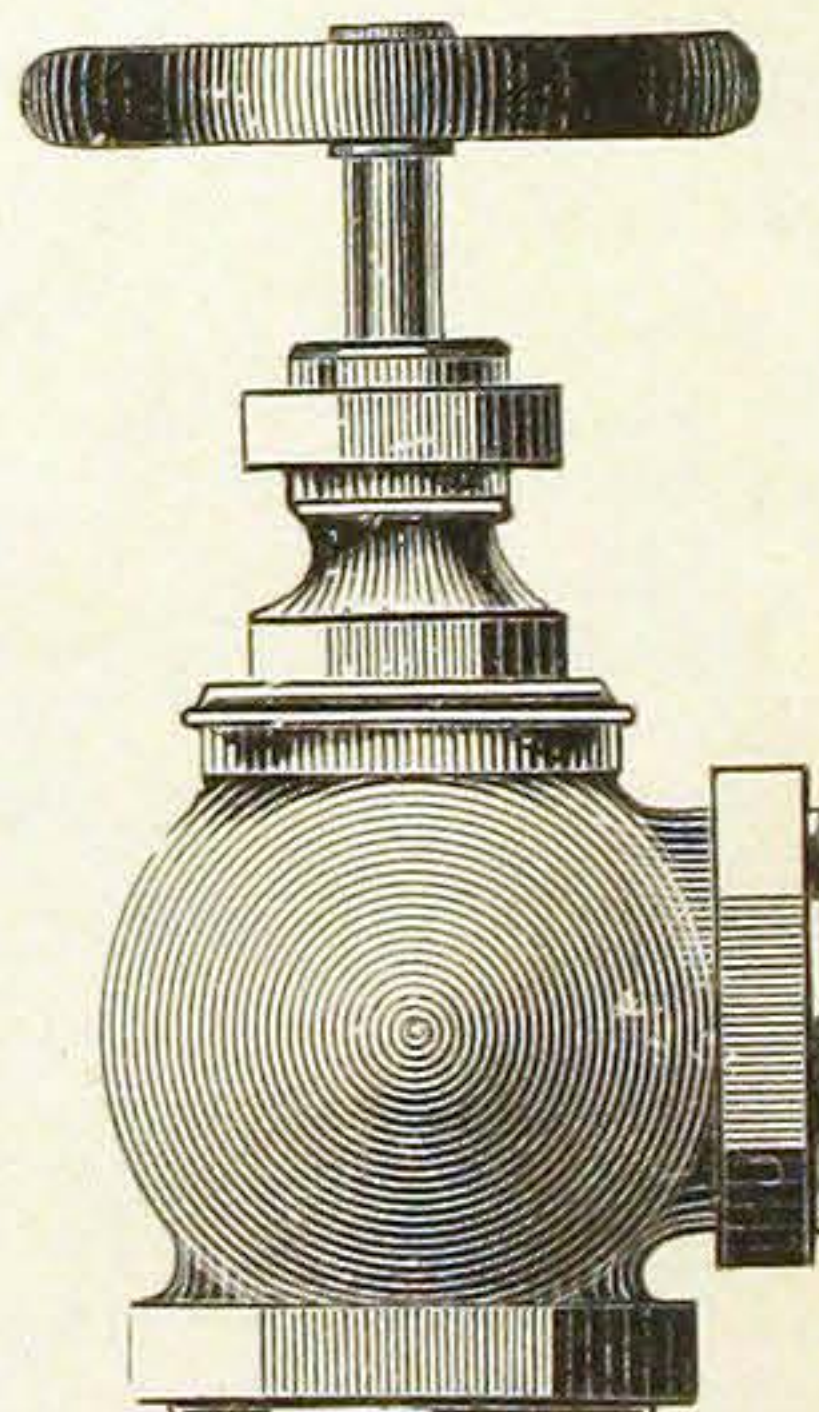
Frink's Pat. Globe Valve.

Fig. 62.



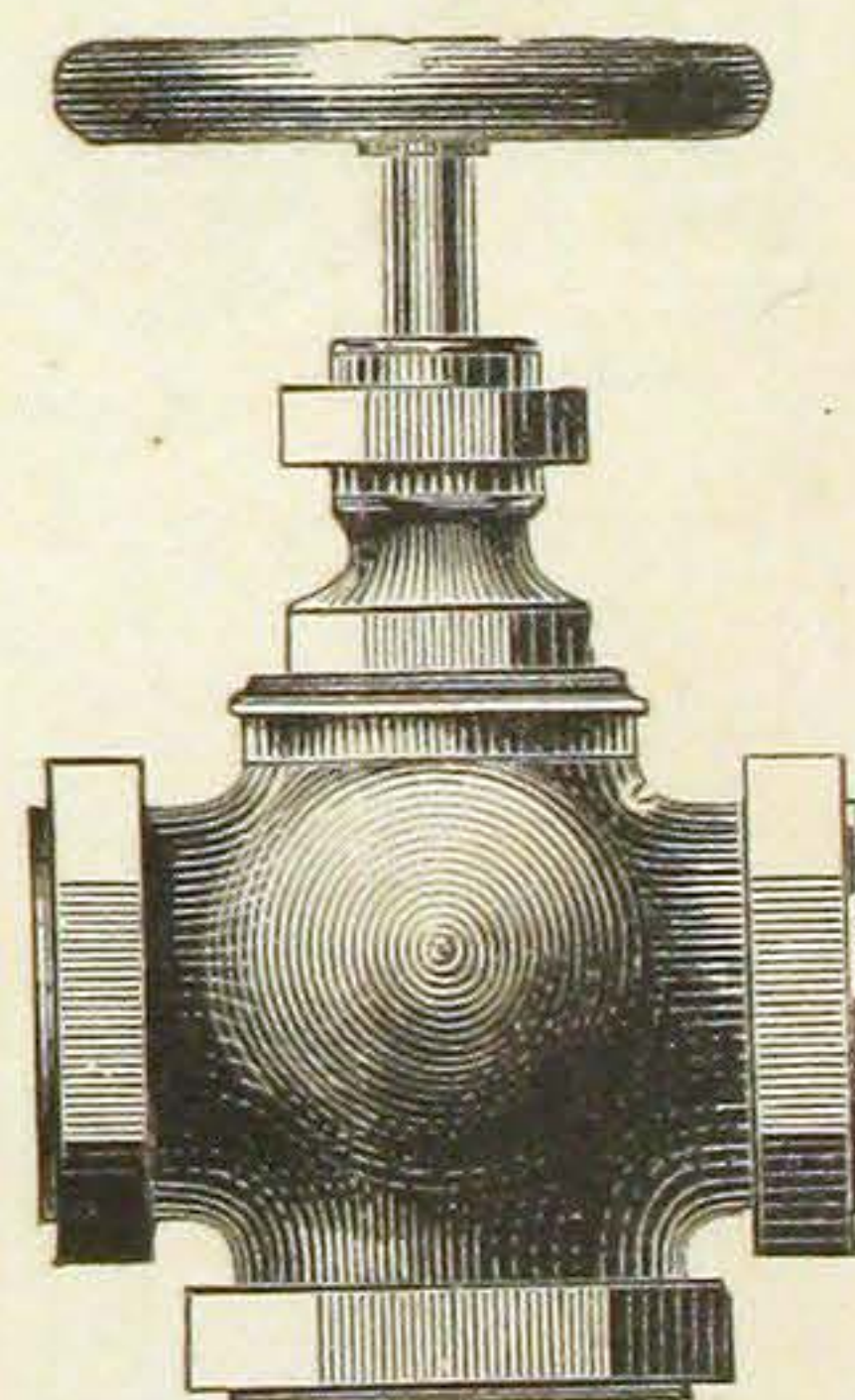
Globe Valve.

Fig. 63.



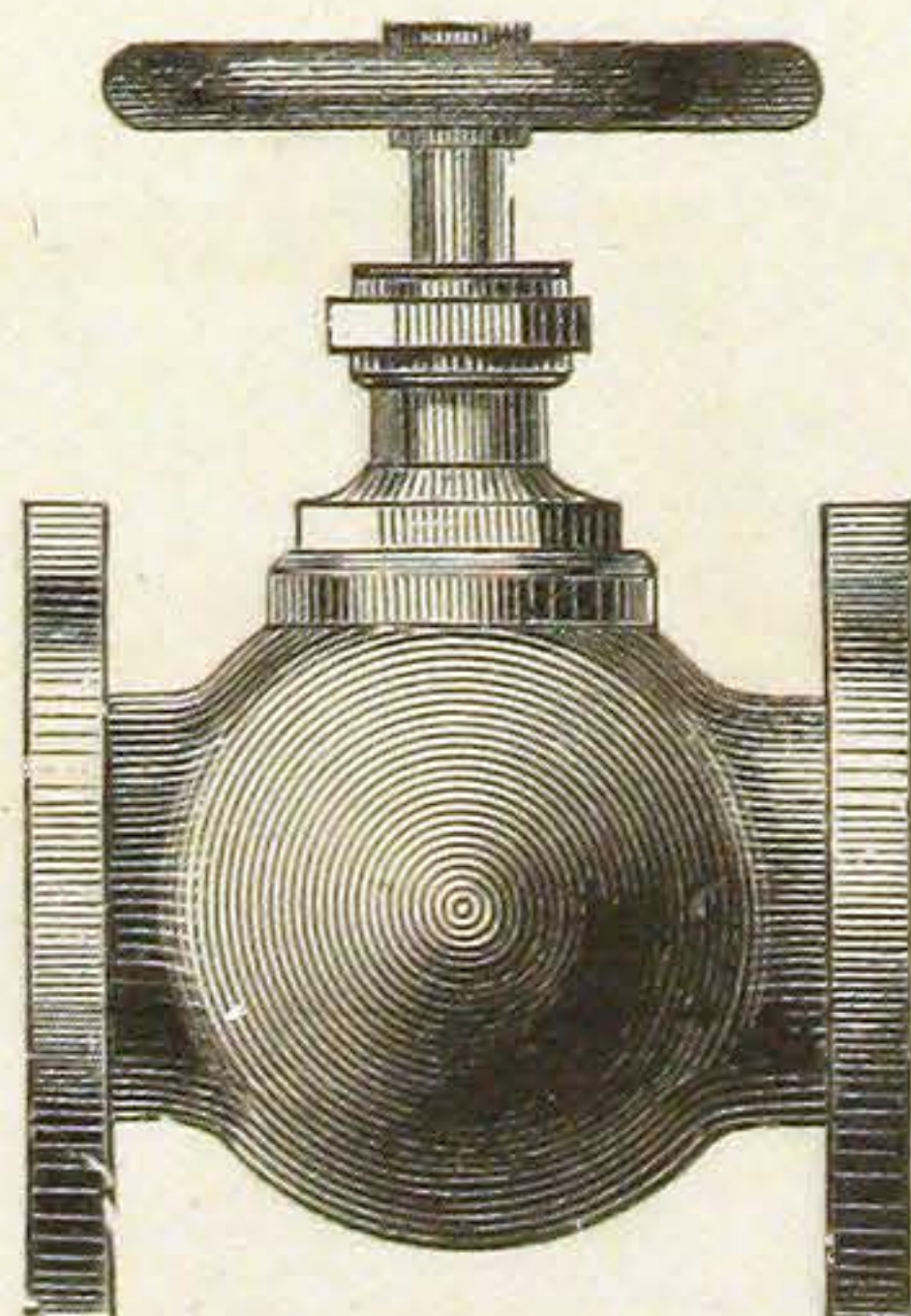
Angle Valve.

Fig. 64.



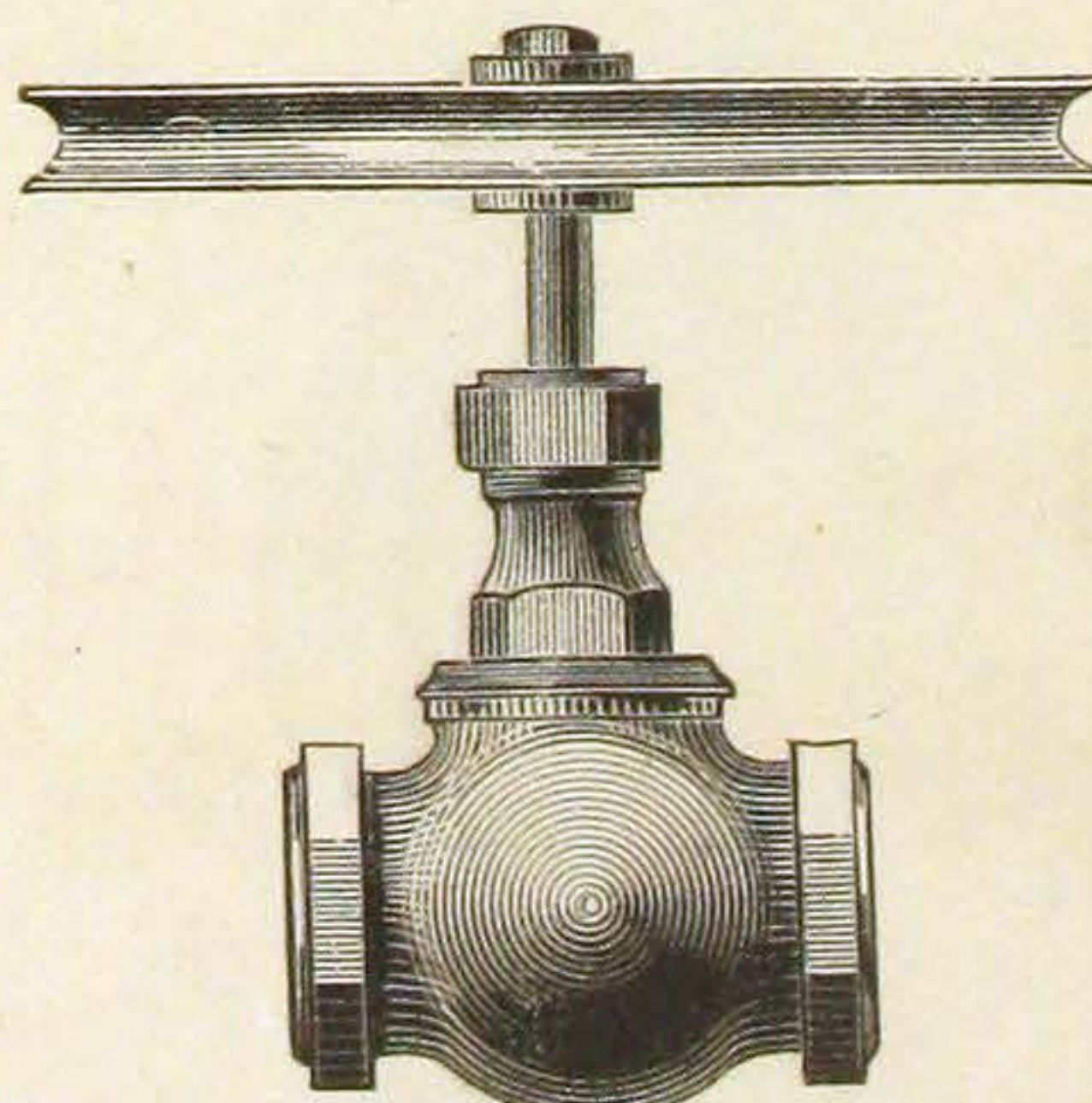
Cross Valve.

Fig. 65.



Flanged Globe Valve.

Fig. 66.

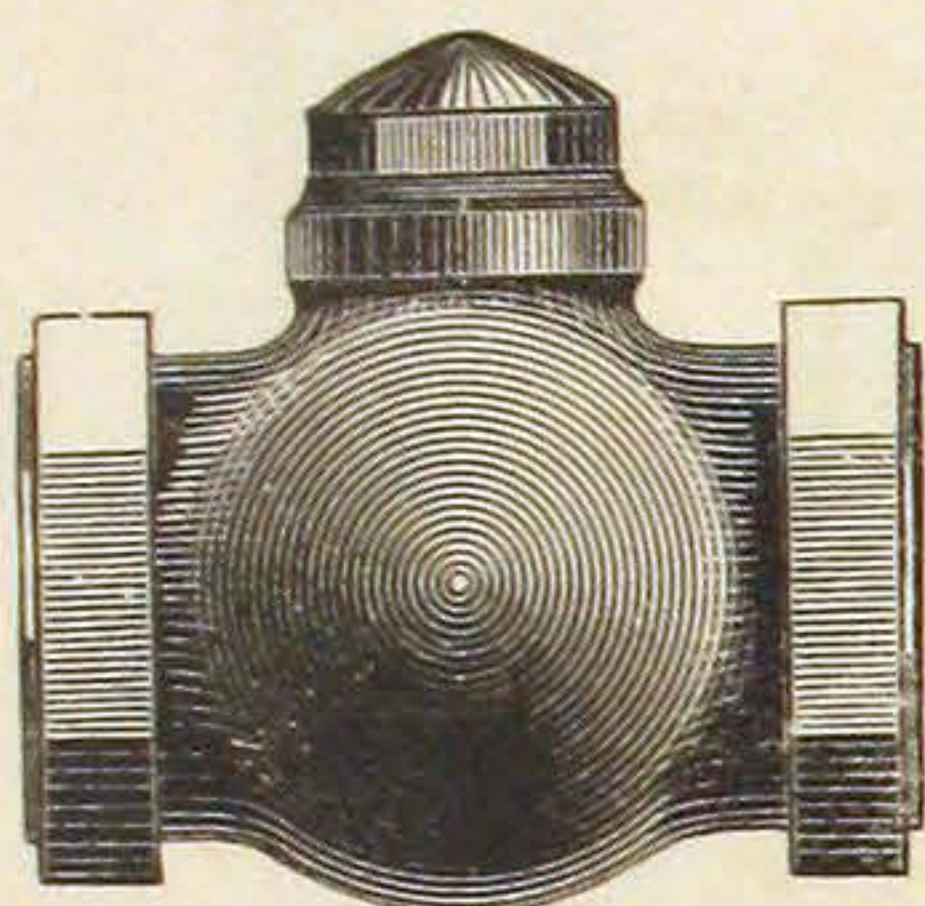


Globe Valve, with large Wheel.



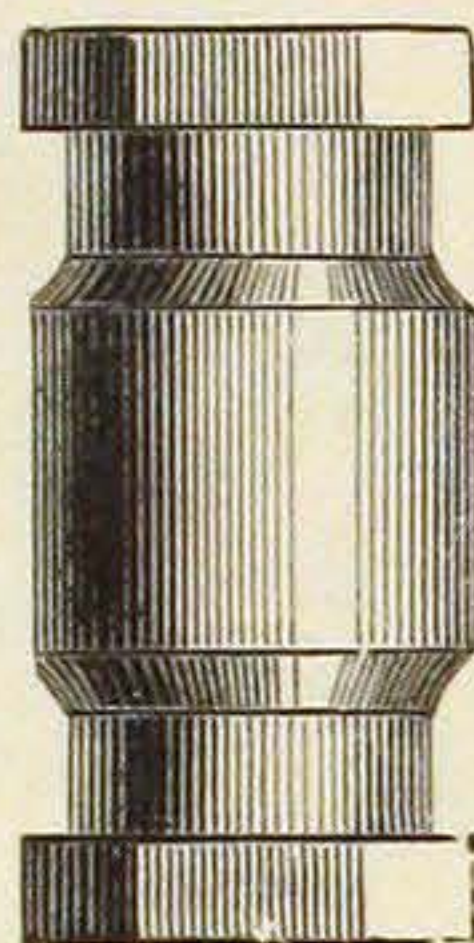
# BRASS VALVES AND COCKS.

**Fig. 67.**



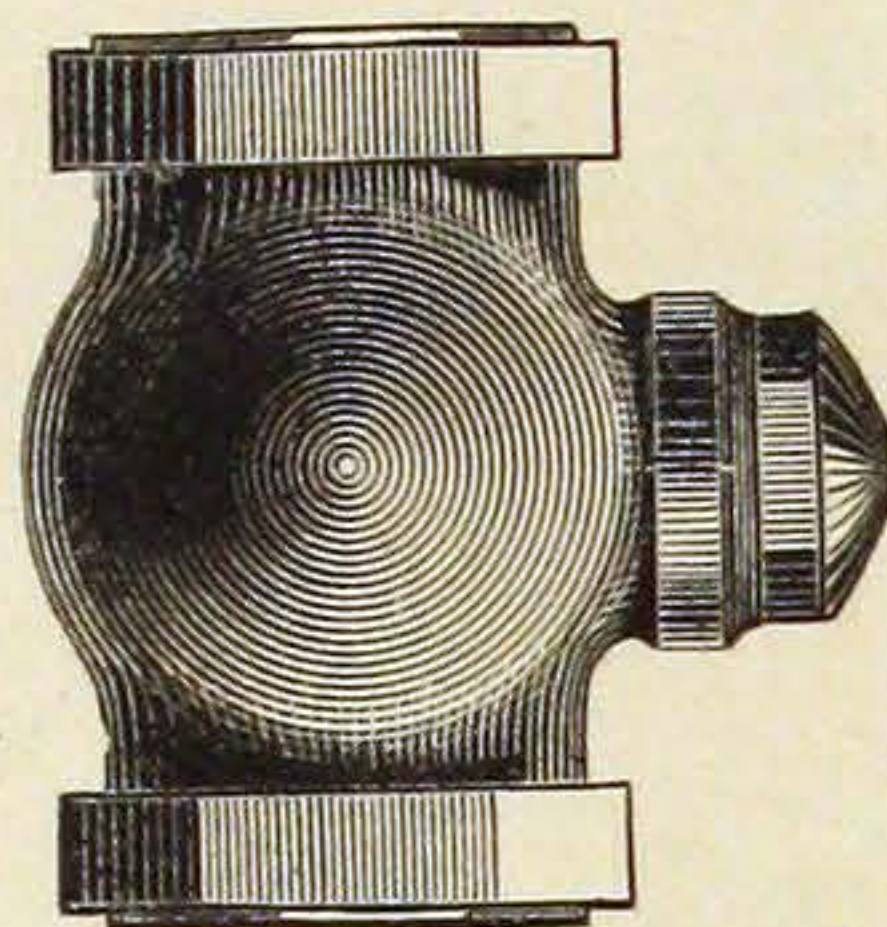
Horizontal Check Valve.

**Fig. 68.**



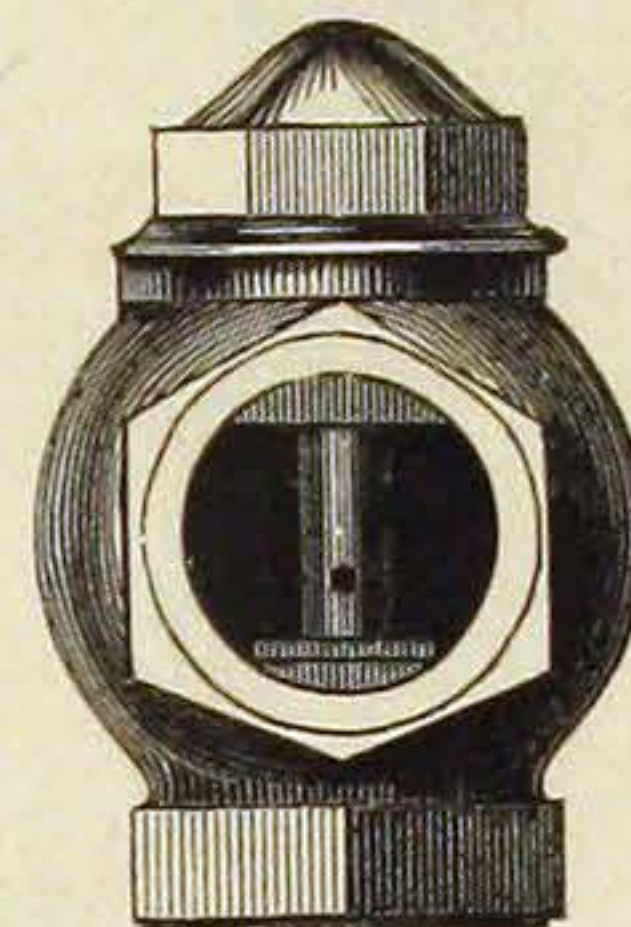
Vertical Check Valve.

**Fig. 69.**



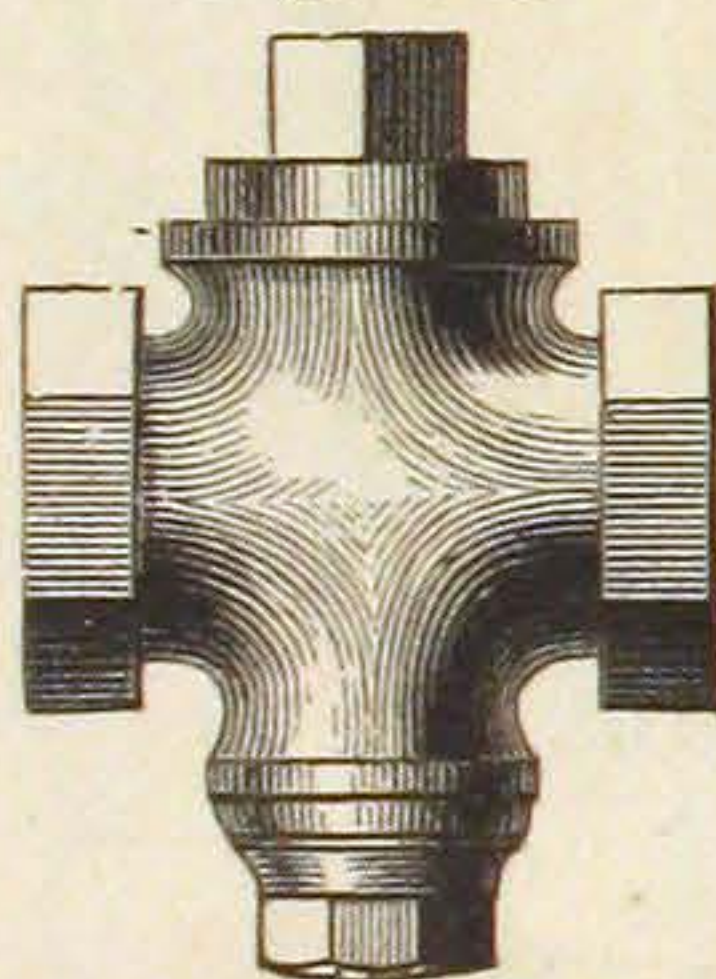
Vertical Check Valve,  
Cap on Side.

**Fig. 70.**



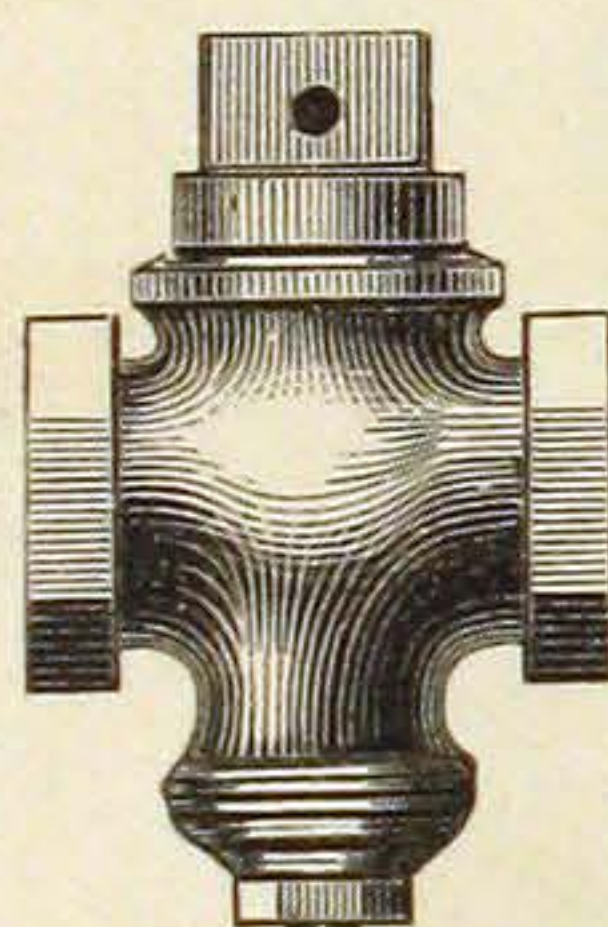
Angle Check Valve.

**Fig. 71.**



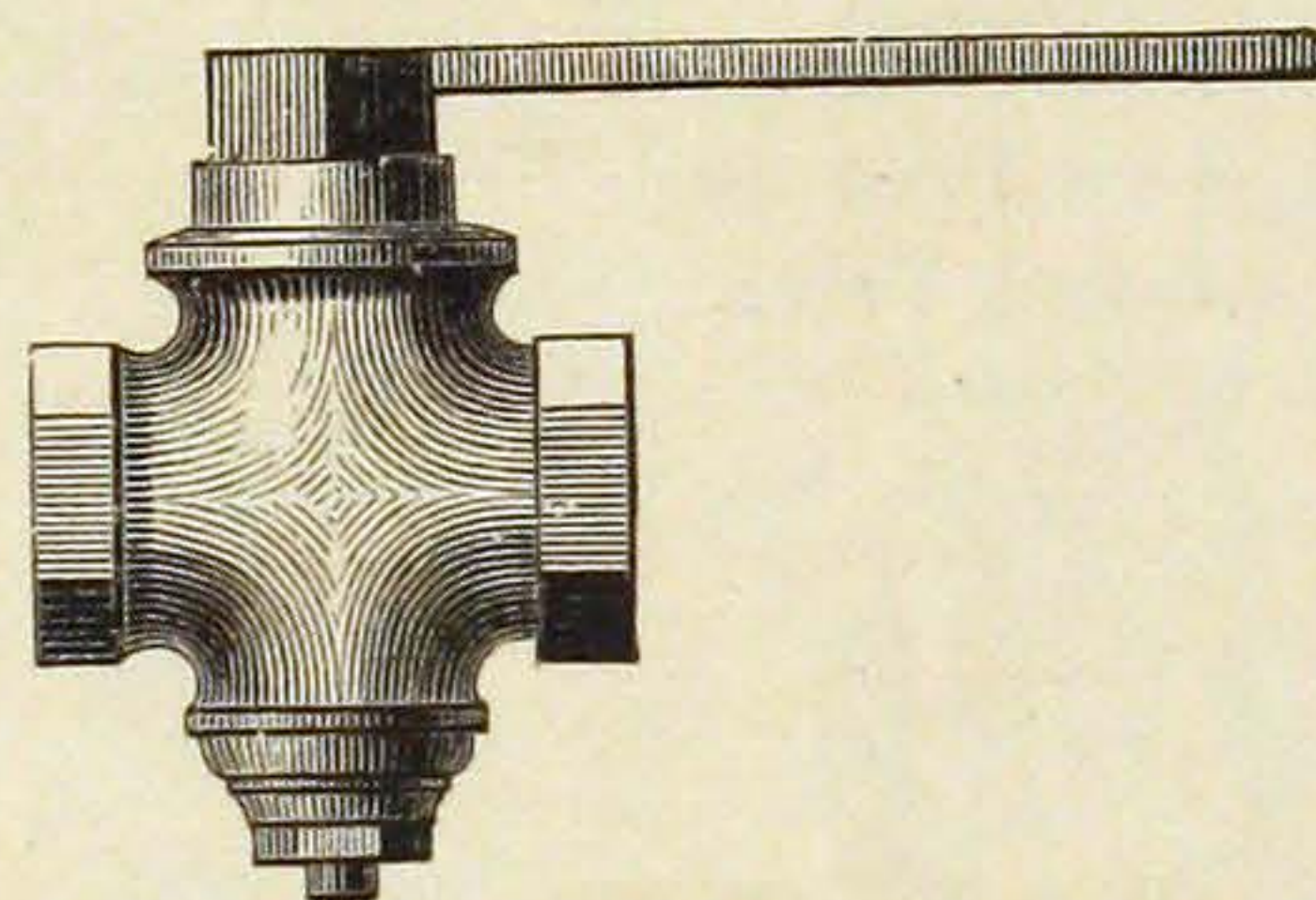
Steam Cock,  
Square Head.

**Fig. 72.**



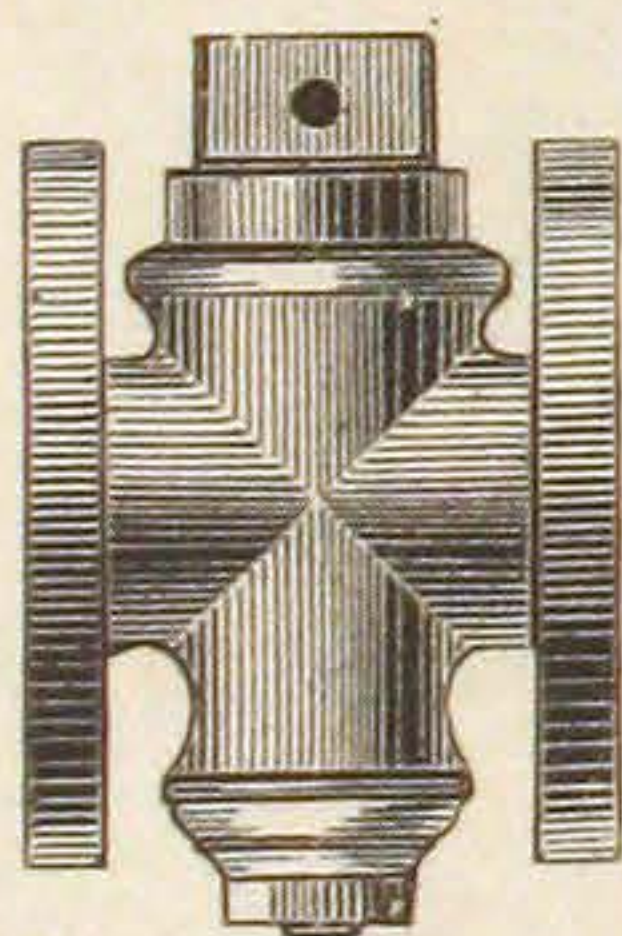
Steam Cock,  
Flat Head.

**Fig. 73.**



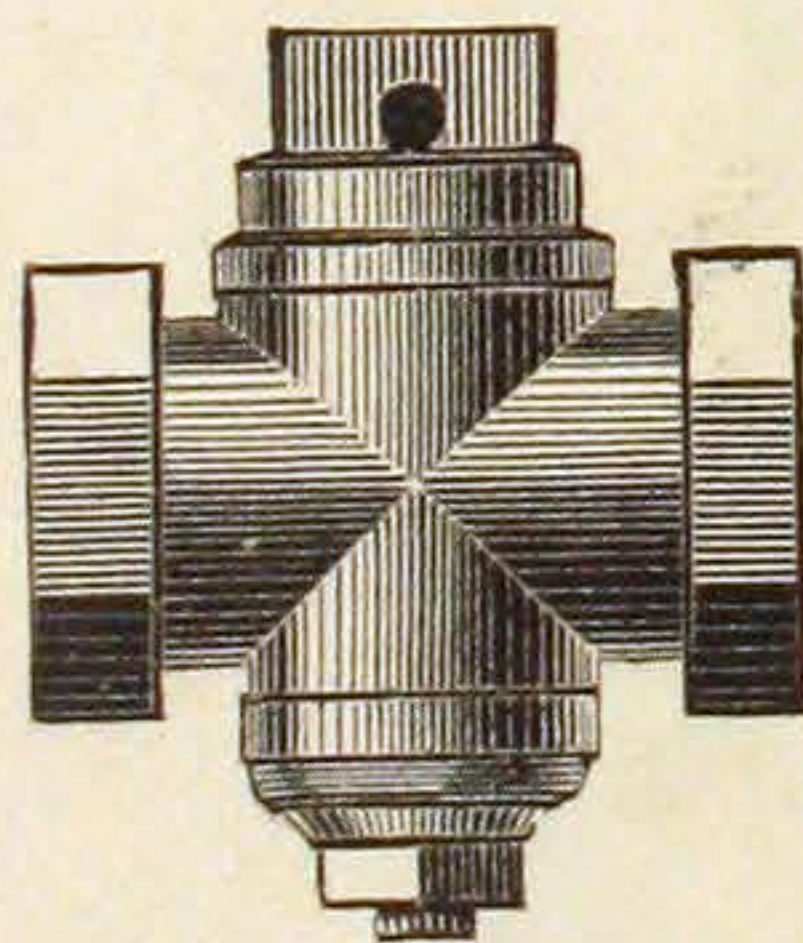
Steam Cock, Handled.

**Fig. 74.**



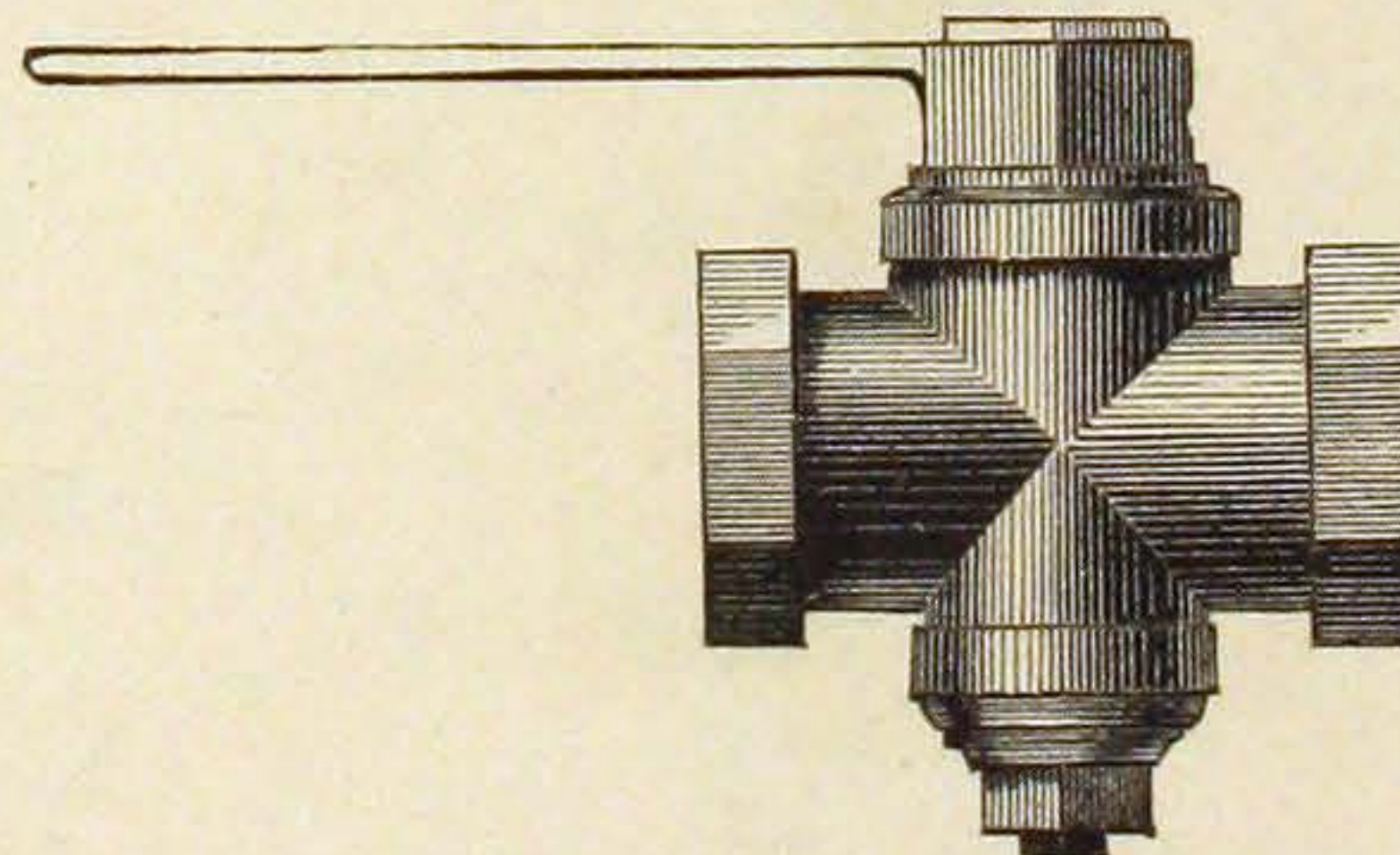
Flanged  
Steam Cock.

**Fig. 75.**



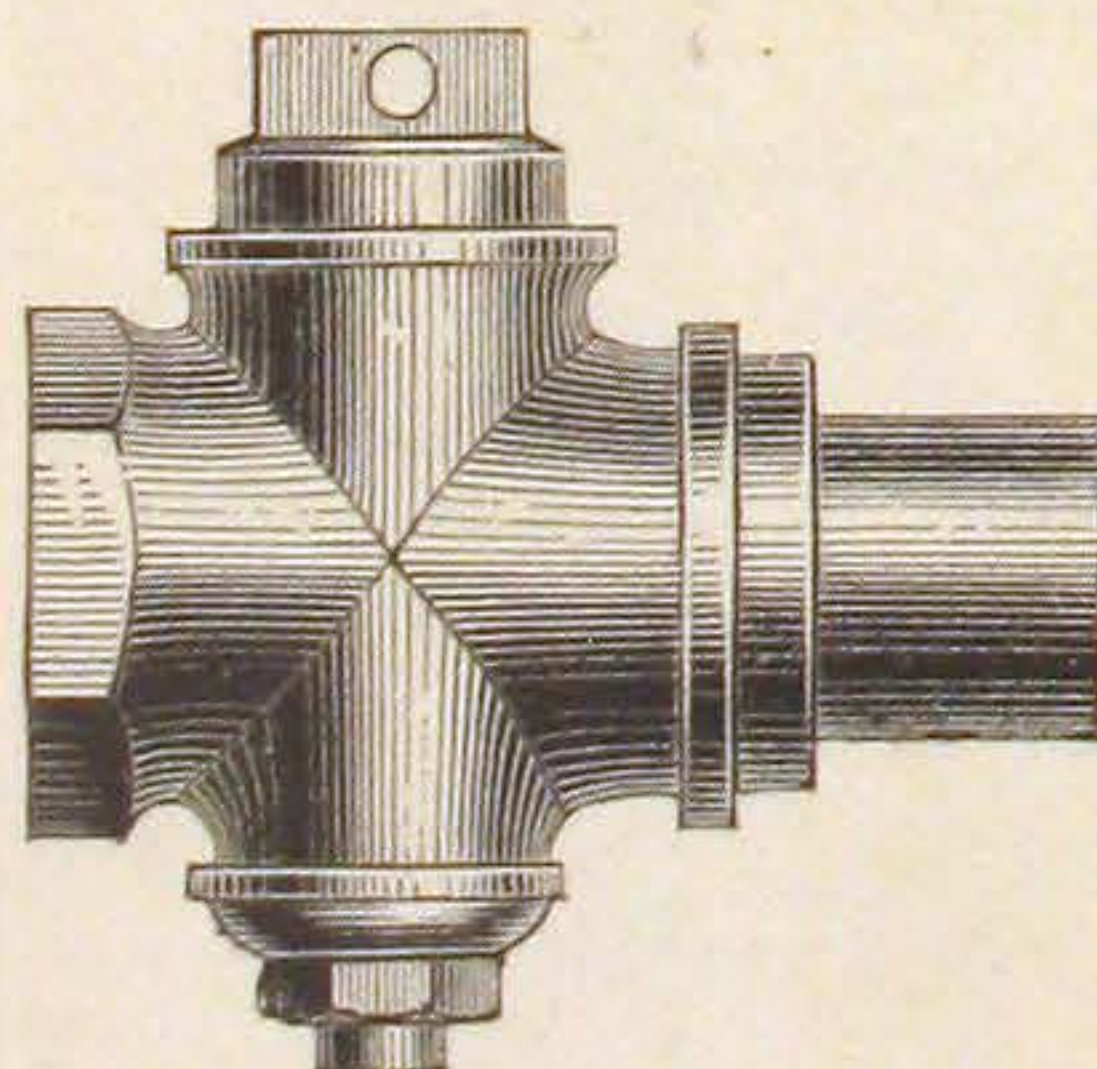
Gas Cock,  
Flat or Square Heads.

**Fig. 76.**



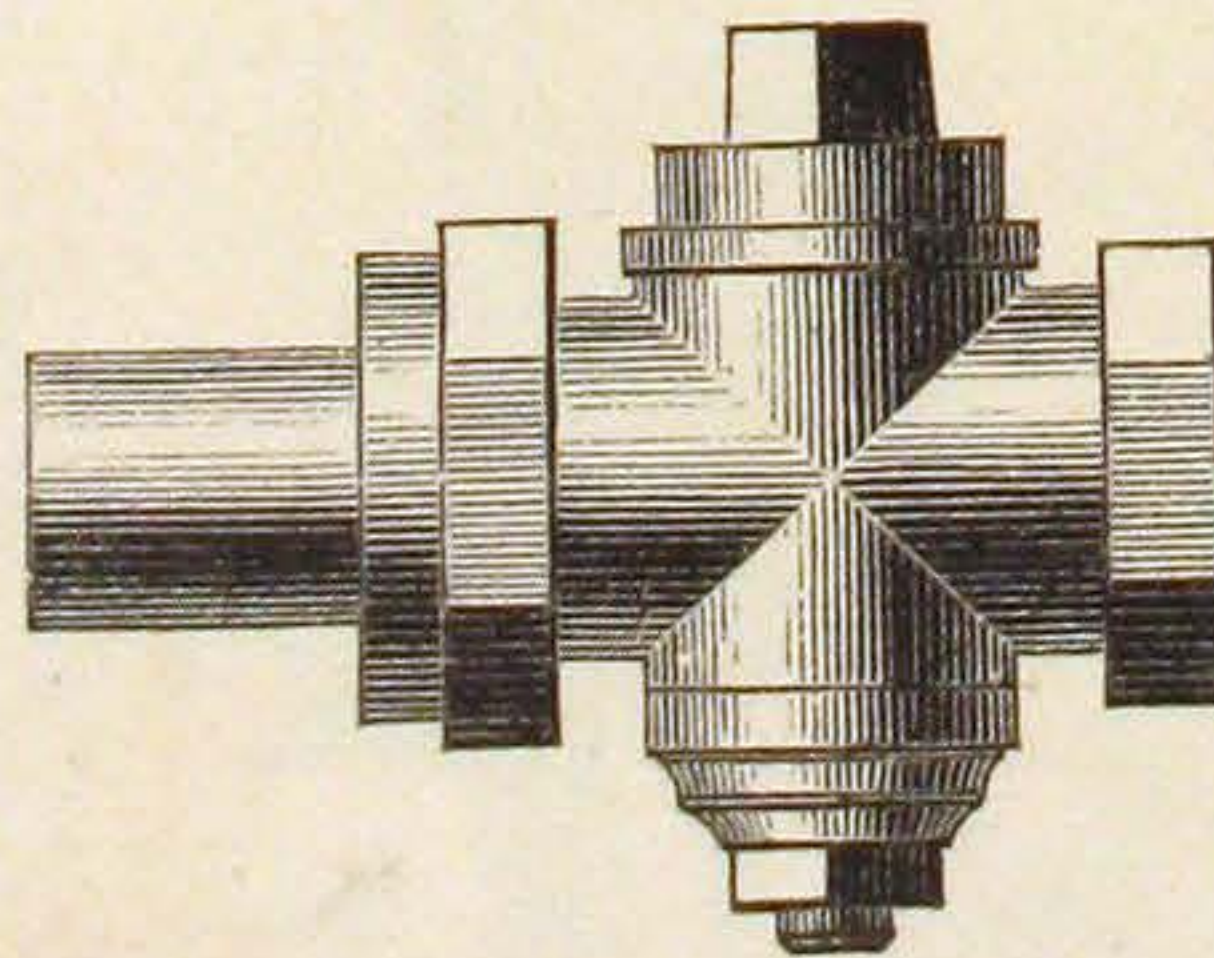
Gas Cock, Handled.

**Fig. 77.**



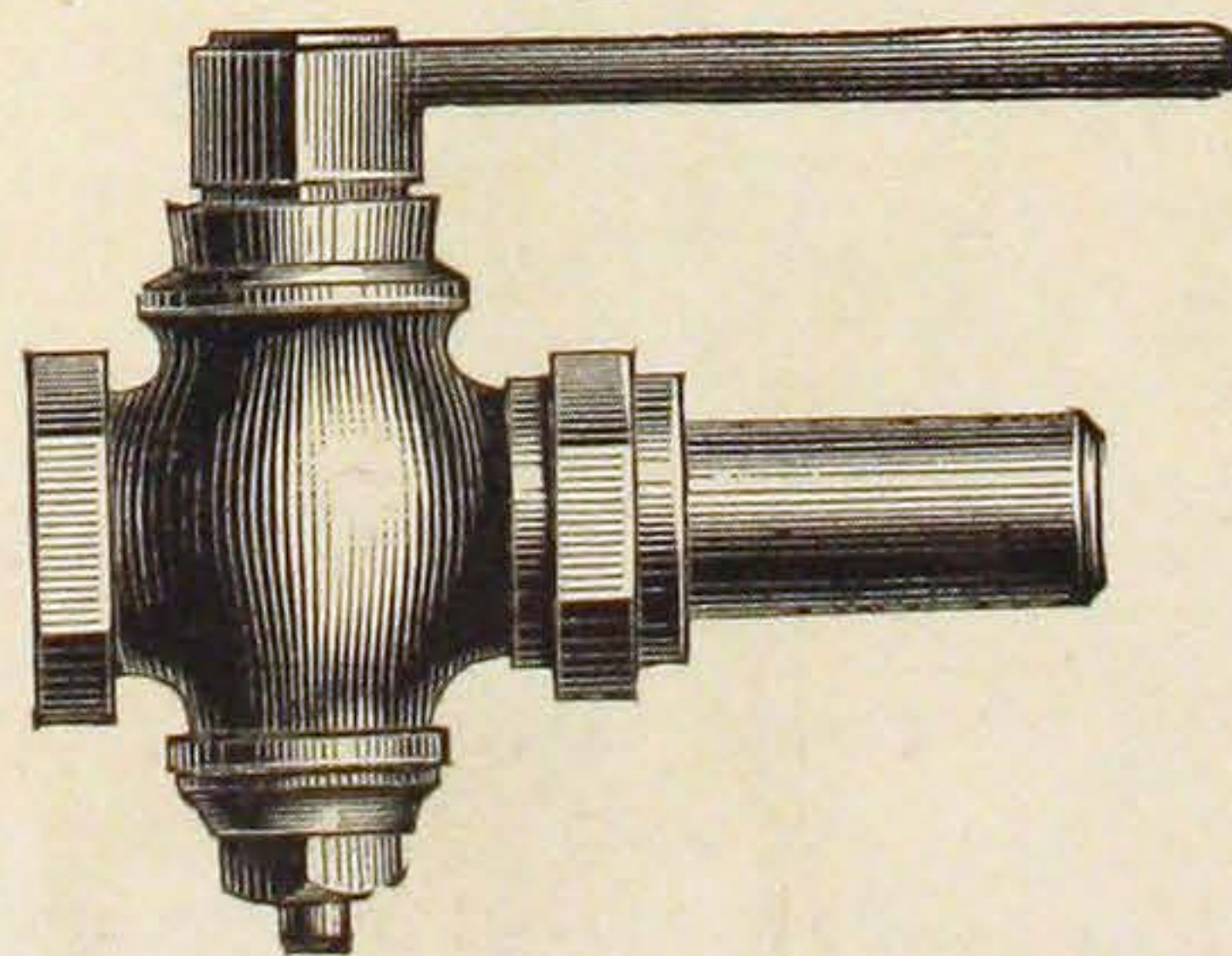
Union Meter Cock,  
Flat Head.

**Fig. 78.**



Union Meter Cock,  
Square Head.

**Fig. 79.**



Union Meter Cock, Handled.



## BRASS VALVES, &amp;c.

Fig. 80.

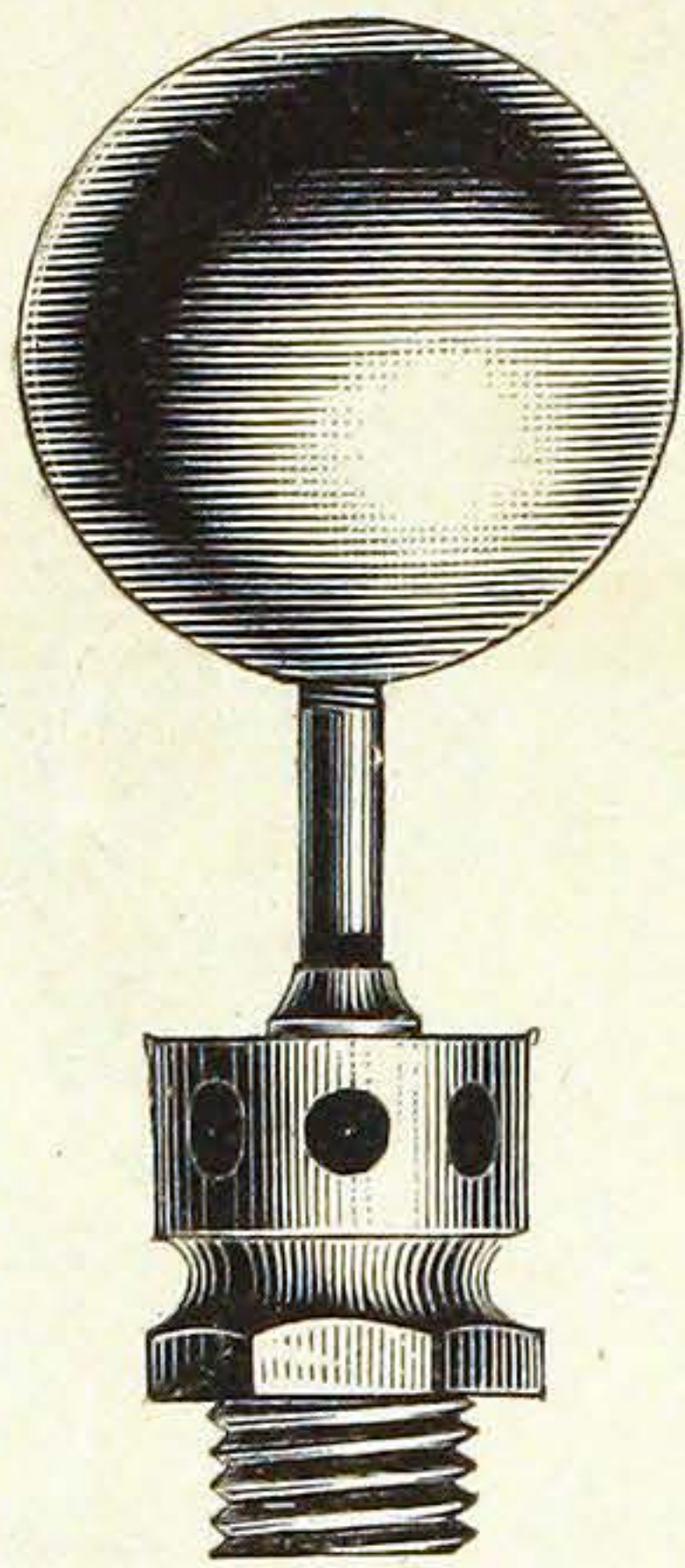
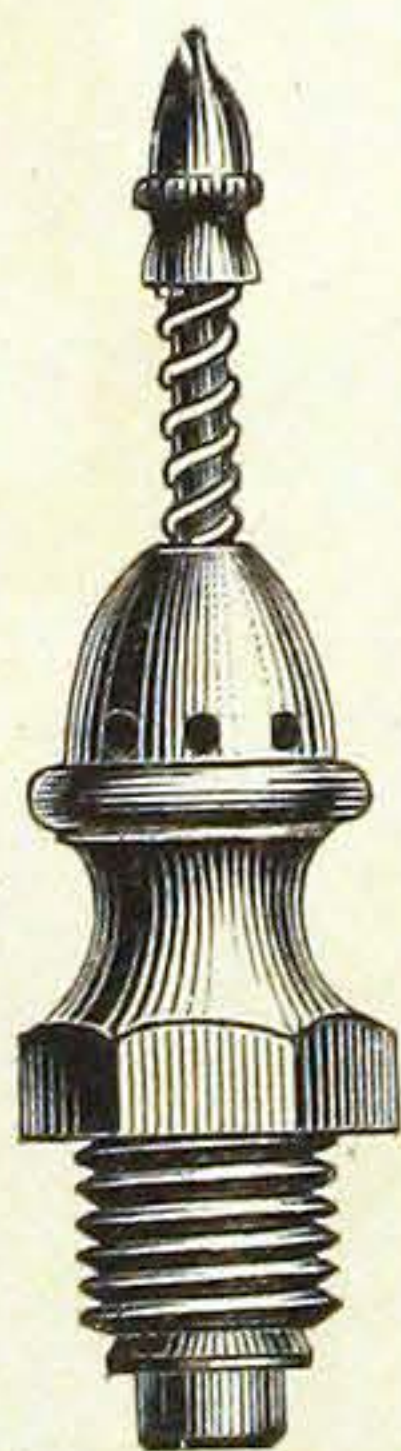
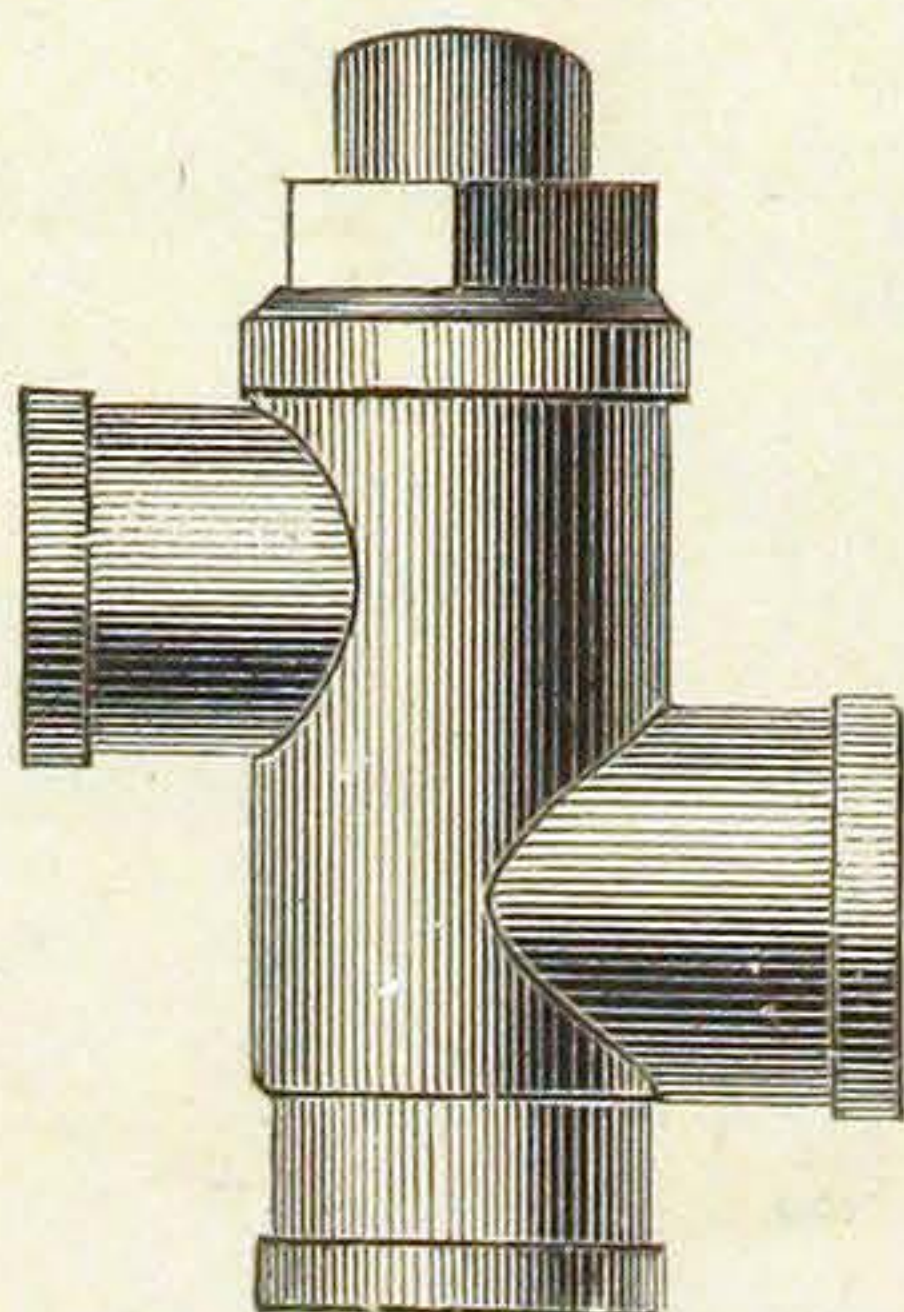
Low Pressure  
Safety Valve.

Fig. 83.



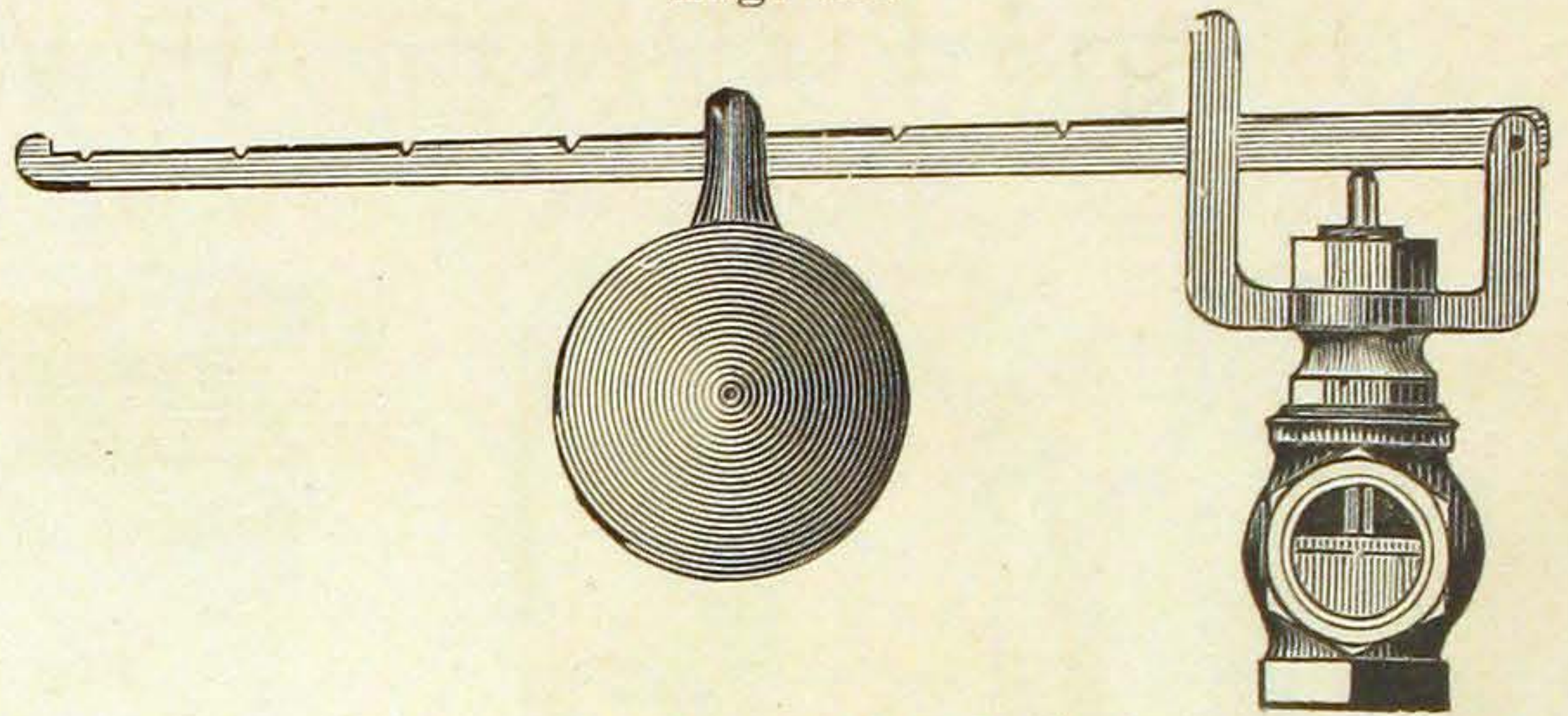
Vacuum Valve.

Fig. 86.



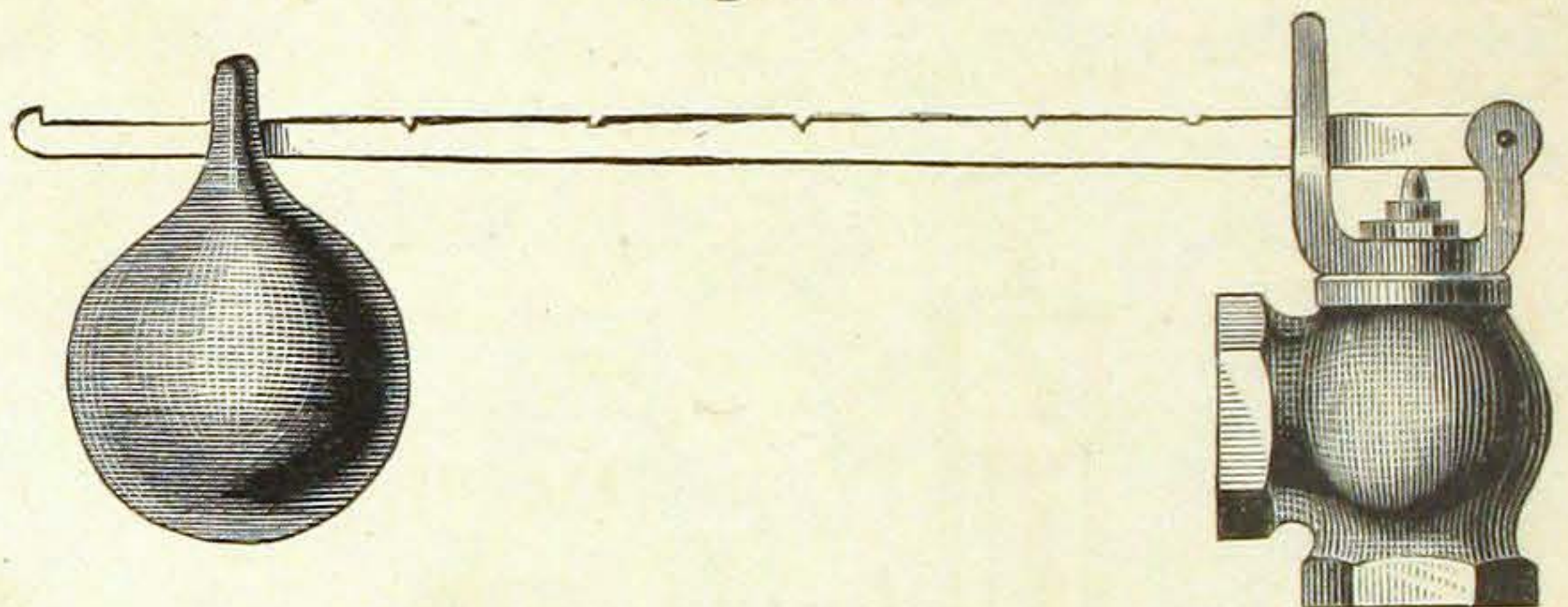
Pump Valve.

Fig. 81.



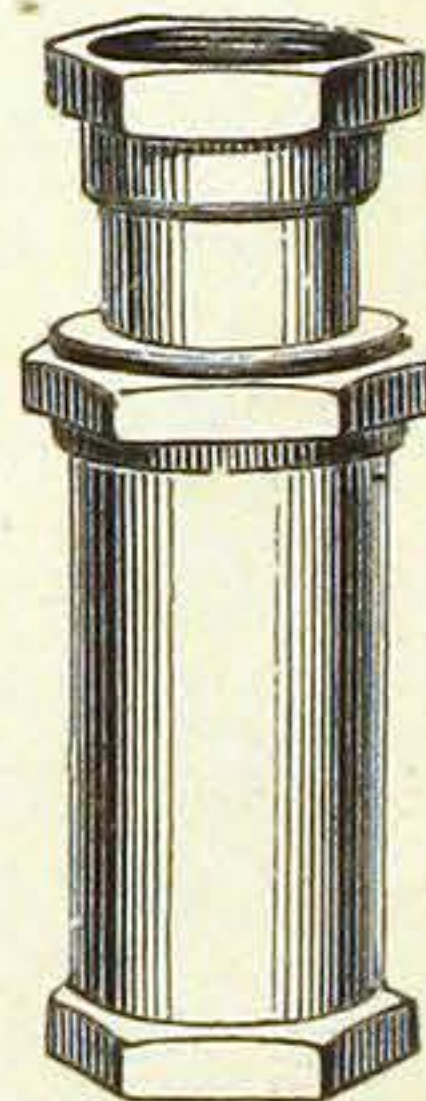
Safety Valve, Globe Pattern.

Fig. 82.



Safety Valve, Angle Pattern.

Fig. 84.



Expansion Joint.

Fig. 87.

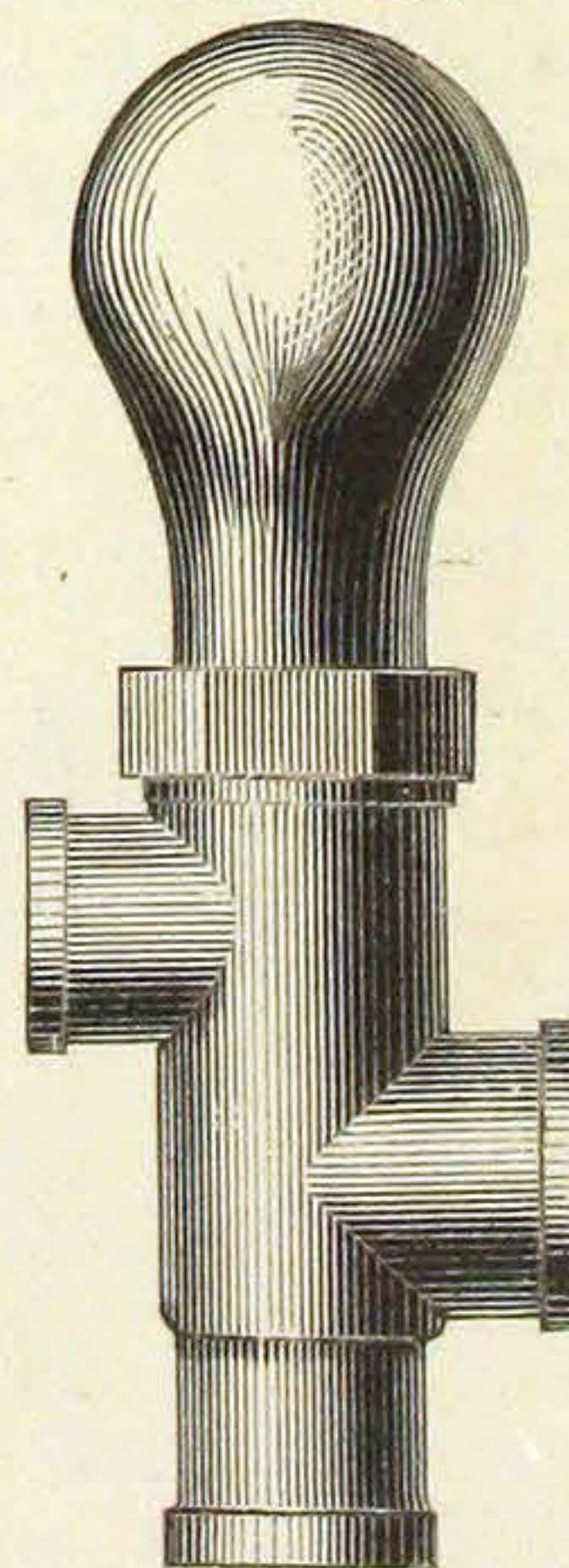
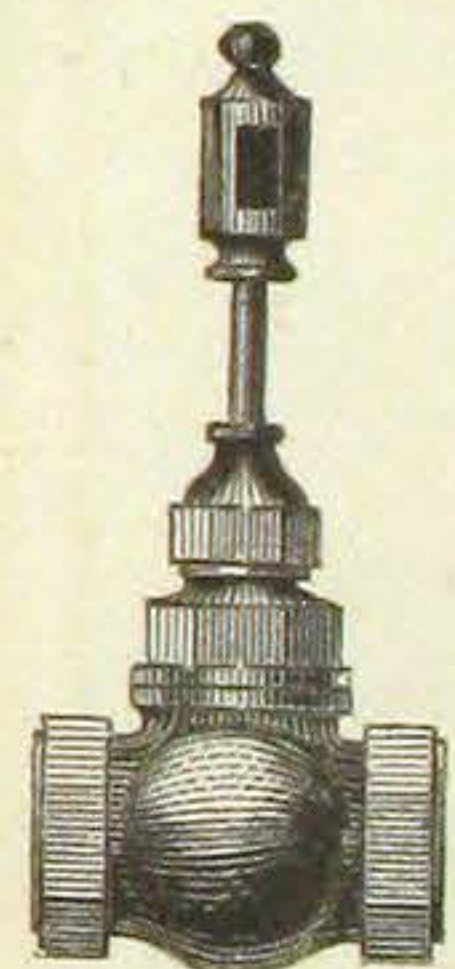
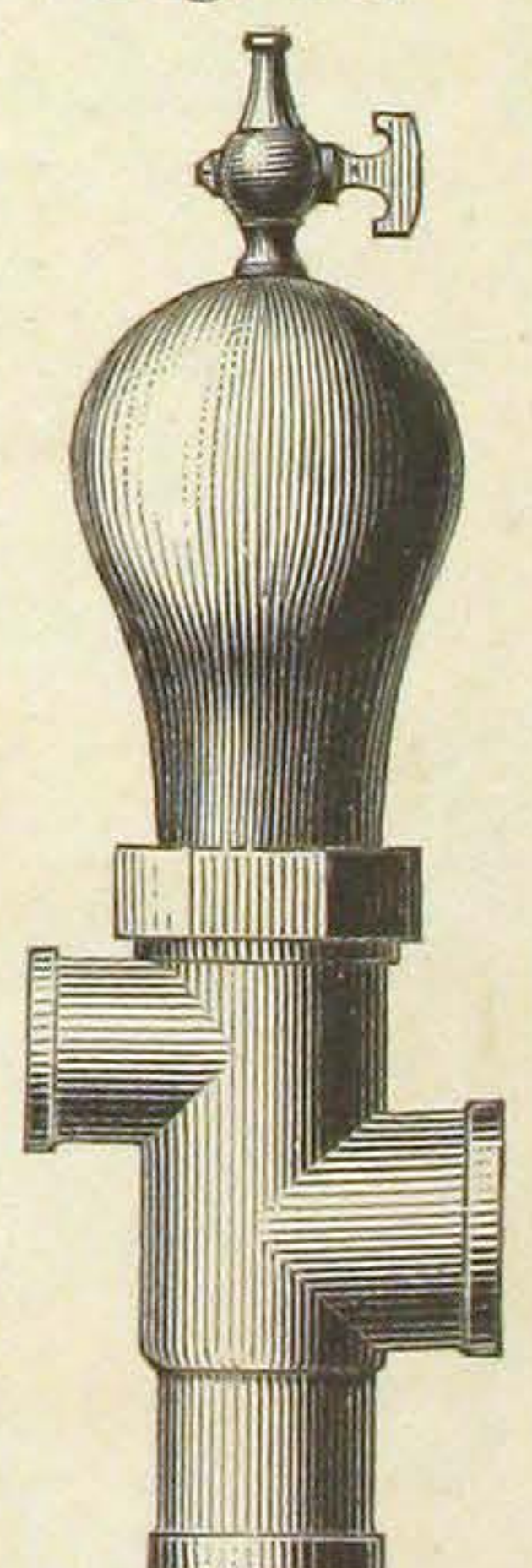
Pump Valve,  
with Air Chamber.

Fig. 85.



Governor Valve.

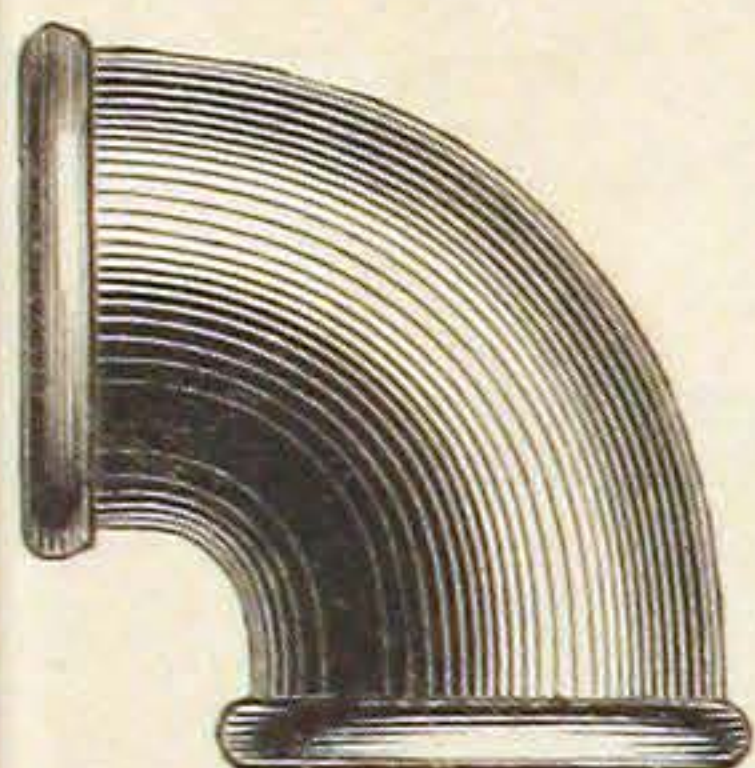
Fig. 88.

Pump Valve, with Air  
Cock and Air Chamber.



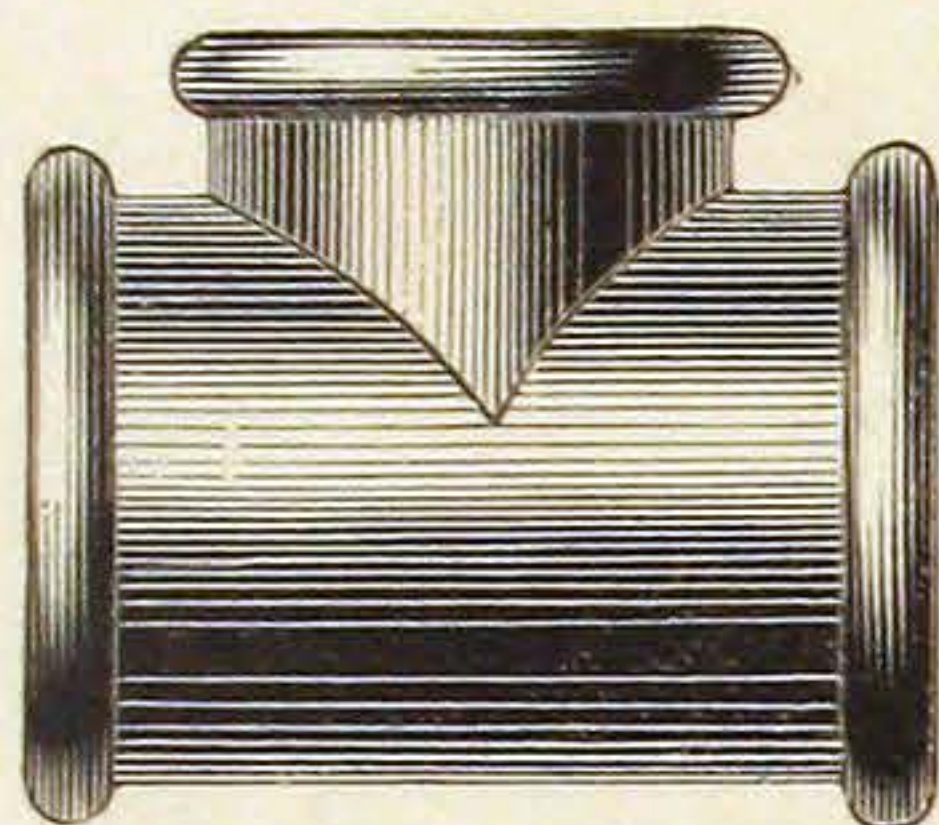
# BRASS FITTINGS, AIR VALVES, &c.

Fig. 89.



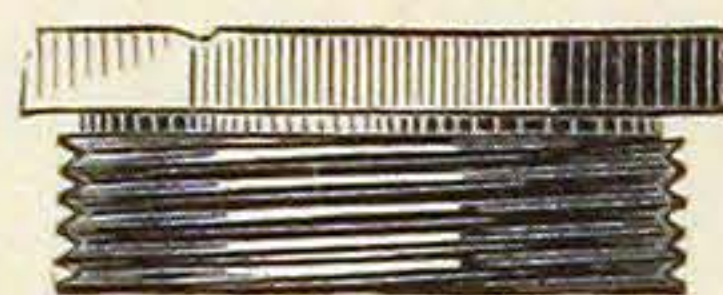
Elbow.

Fig. 90.



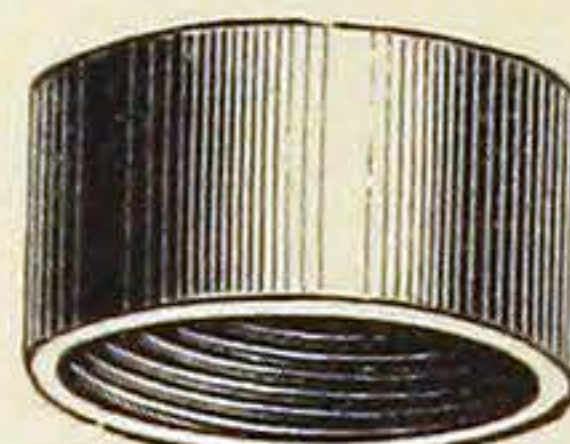
Tee.

Fig. 91.



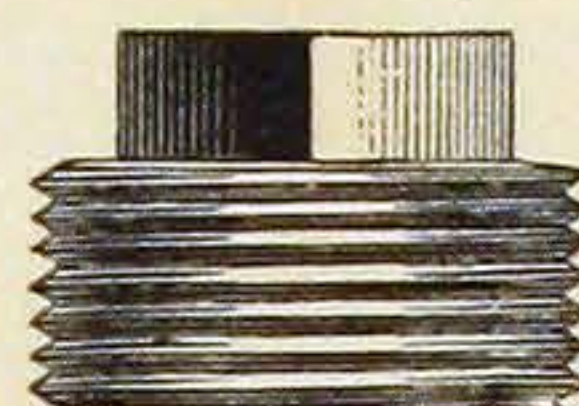
Bushing.

Fig. 92.



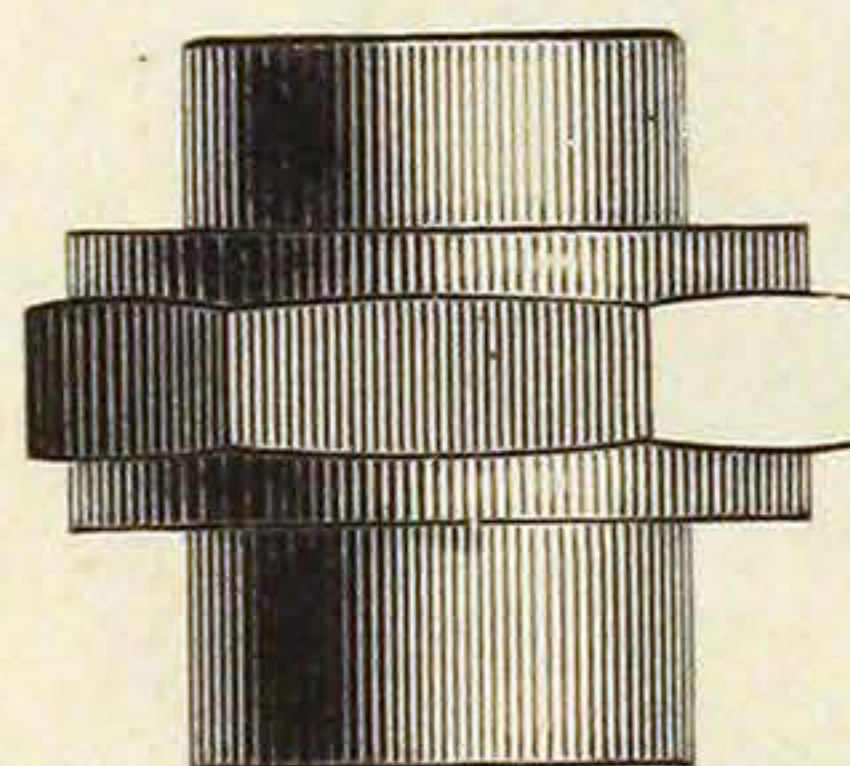
Cap.

Fig. 93.



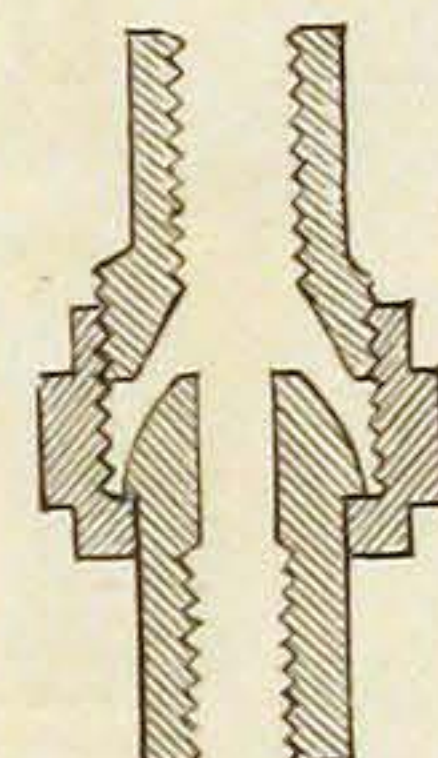
Plug.

Fig. 94.



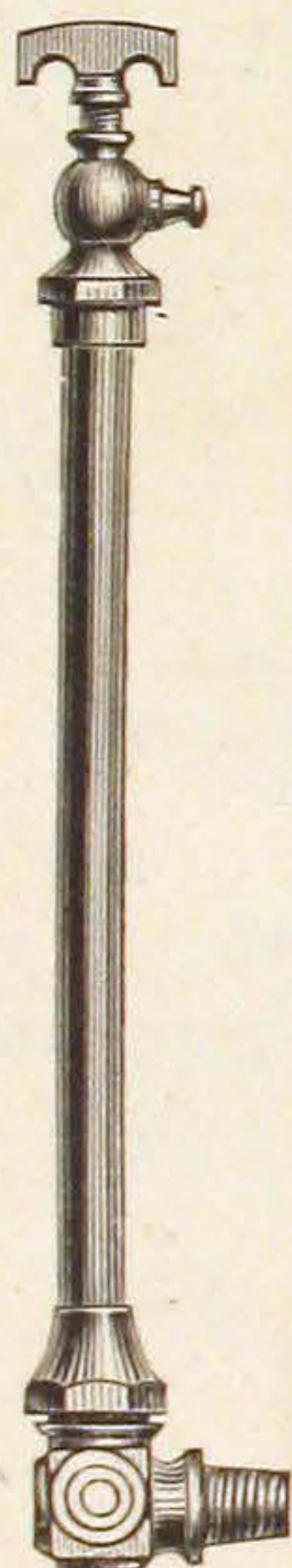
Union.

Fig. 94.



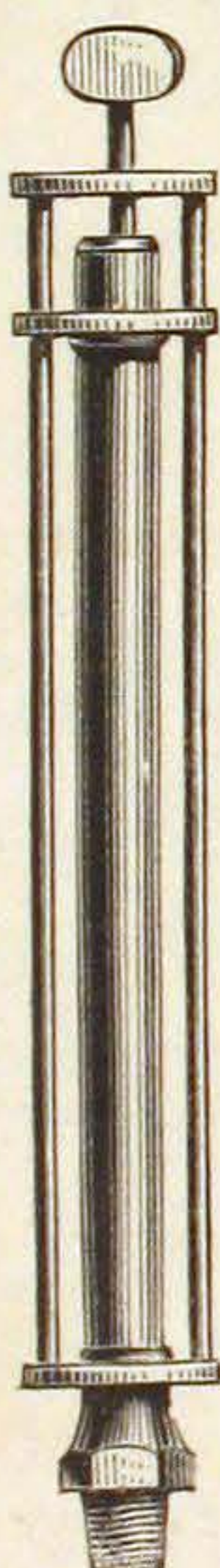
Ground Joint Union.

Fig. 95.



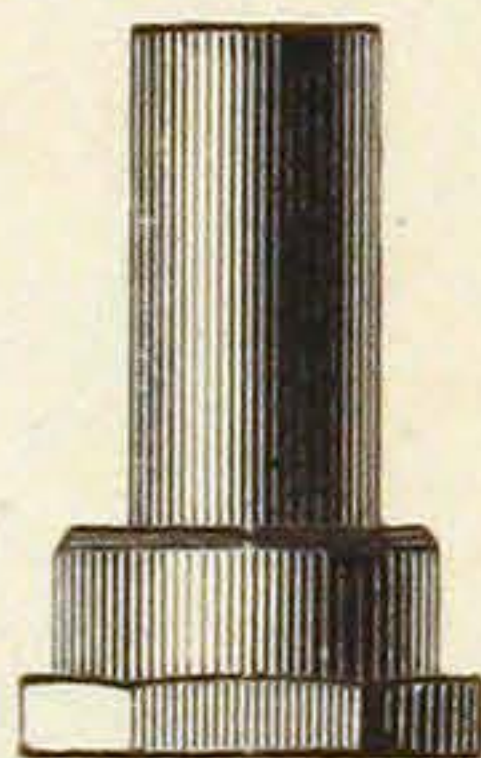
Air Cock,  
Air Valve.

Fig. 96.



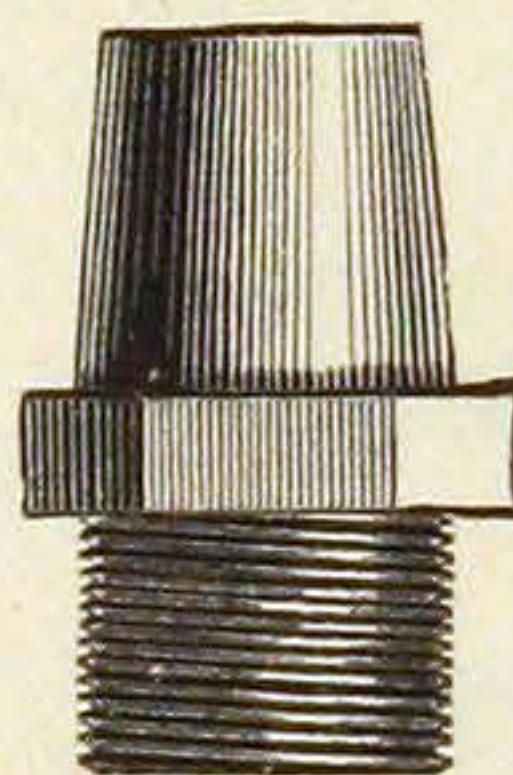
Self-Acting  
Air Valve.

Fig. 97.



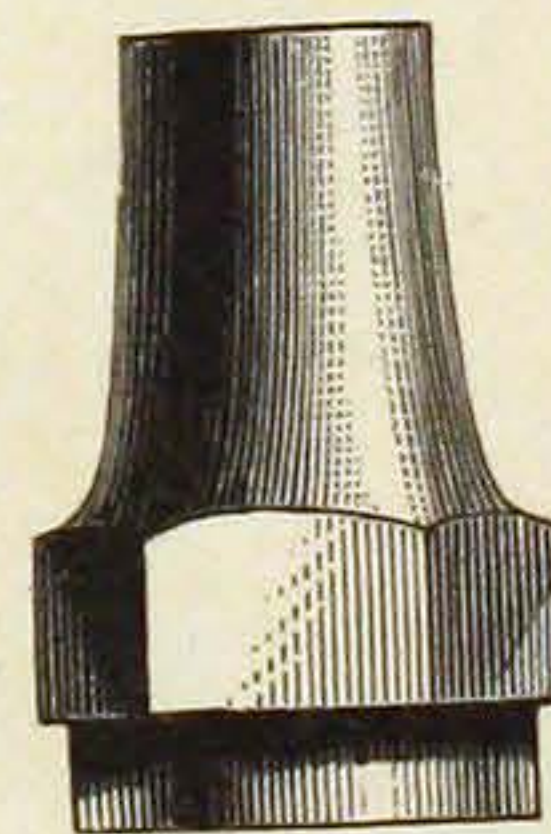
Soldering Union.

Fig. 98.



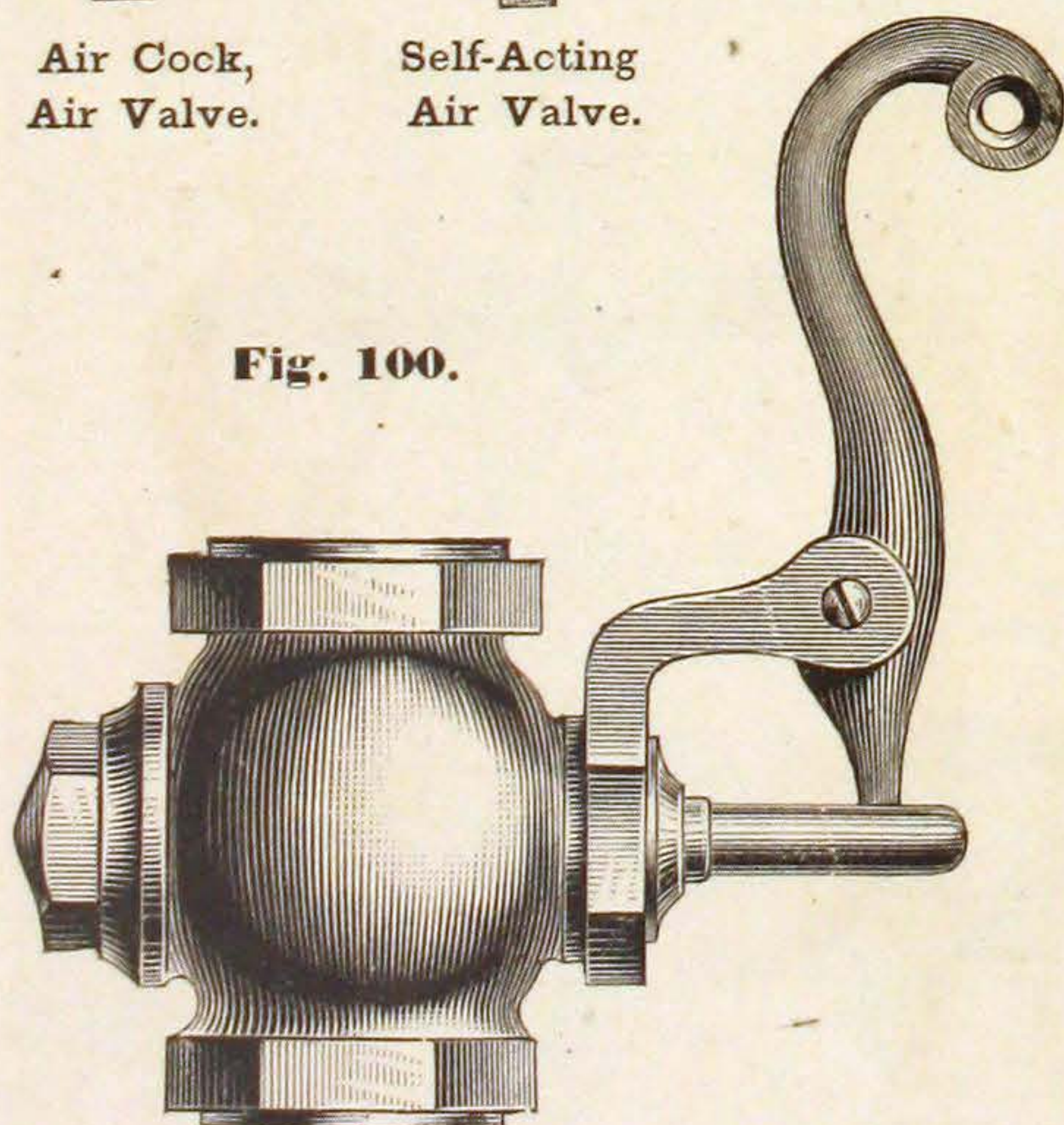
Soldering Nipple.

Fig. 99.



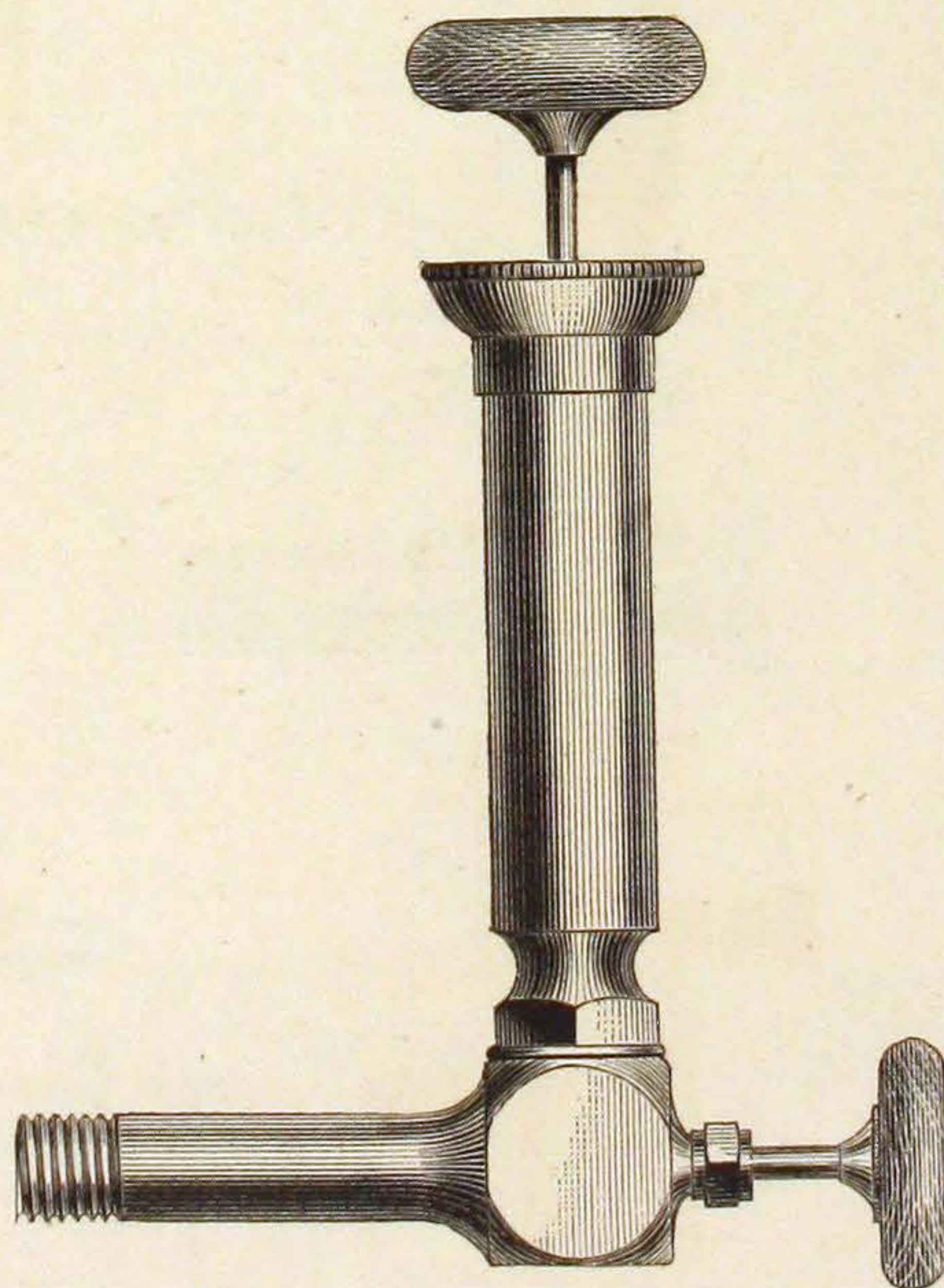
Soldering Nipple,  
Female.

Fig. 100.



Whistle Valve.

Fig. 101.



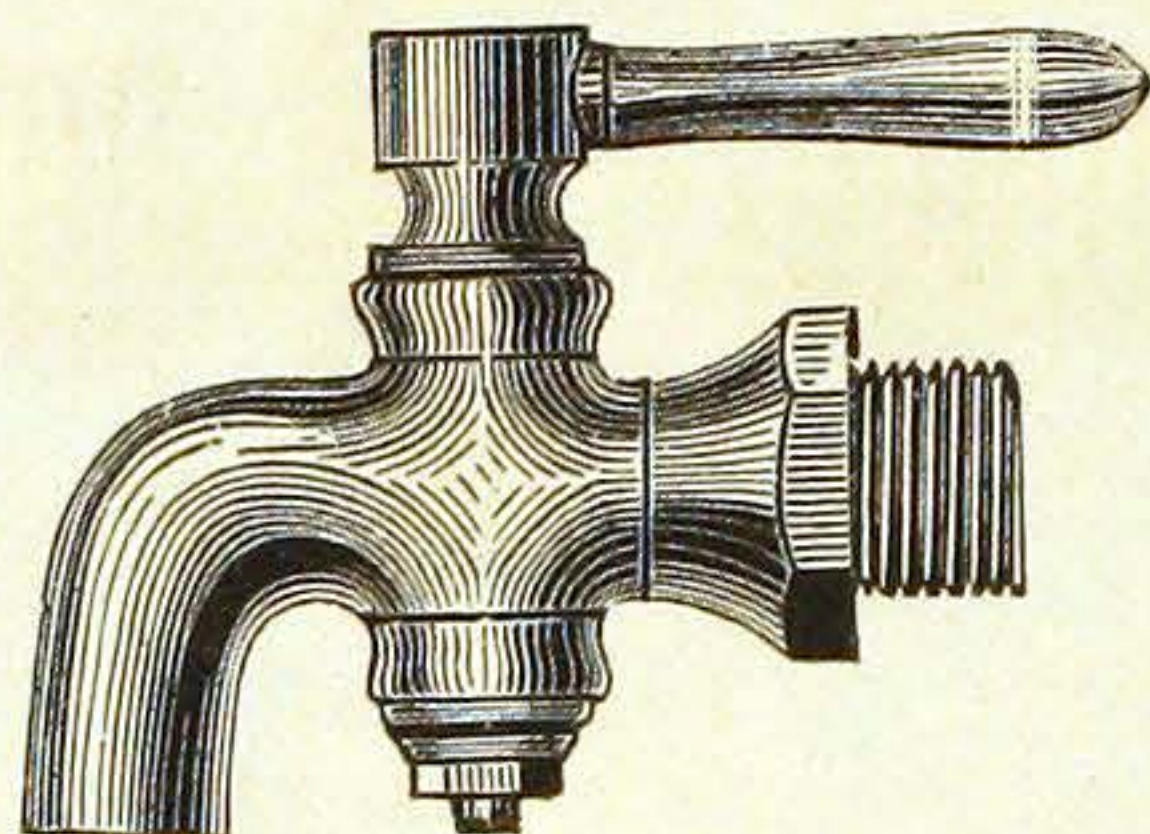
Oil Pump.



## STEAM BIBBS, STOPS AND GAUGE COCKS.

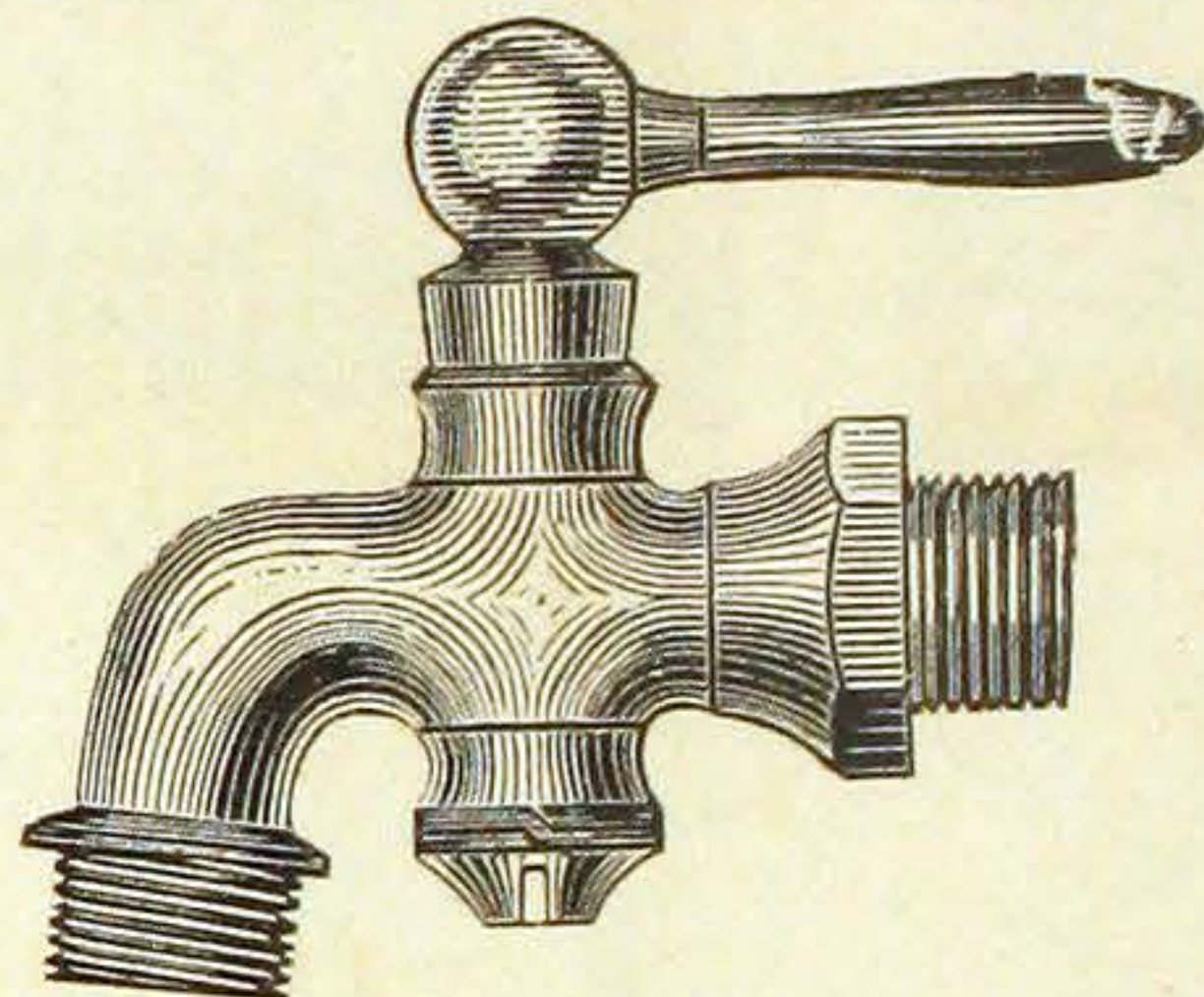
## STEAM BIBBS.

Fig. 102.



For Iron Pipe.

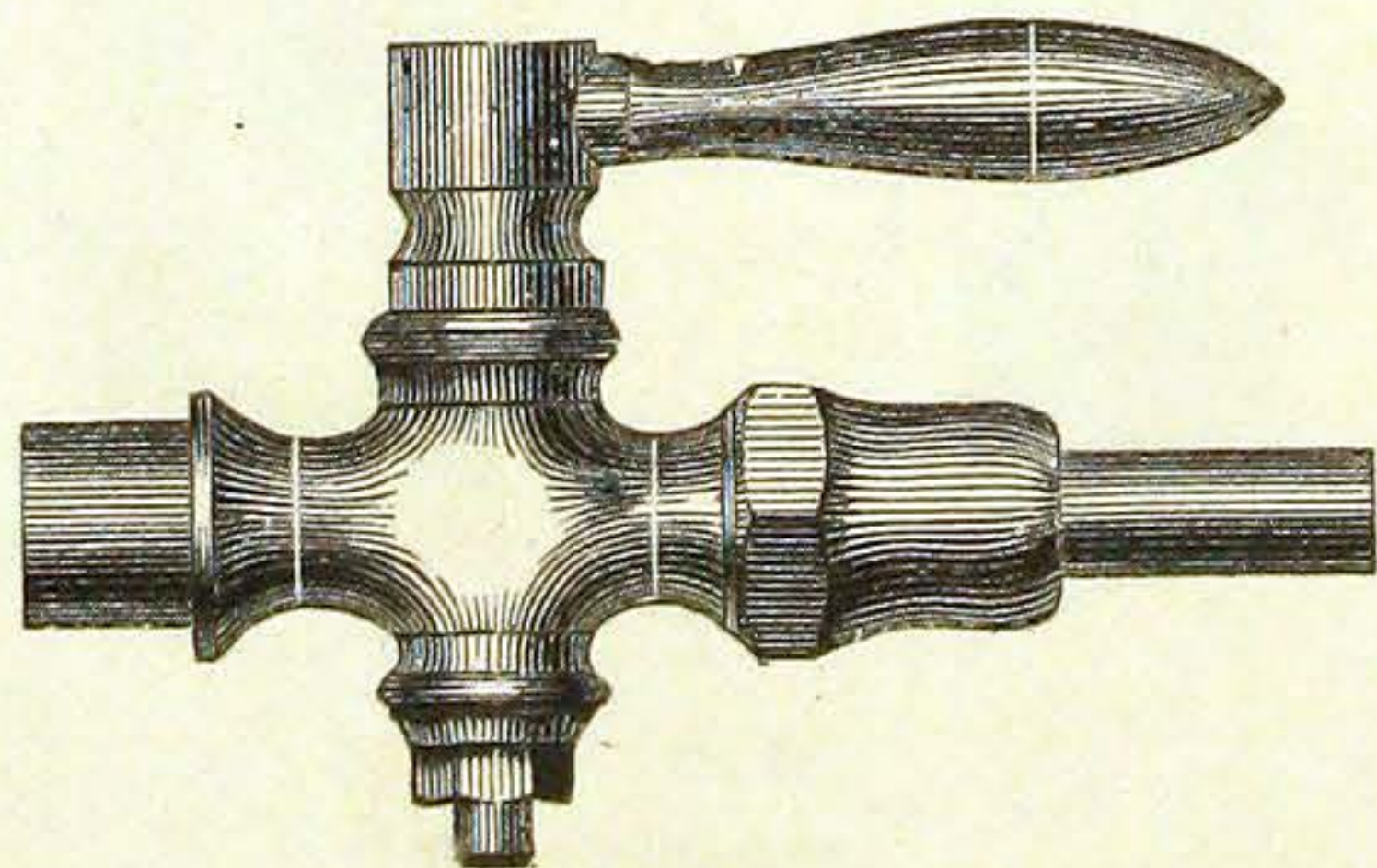
Fig. 103.



Hose Nozzle.

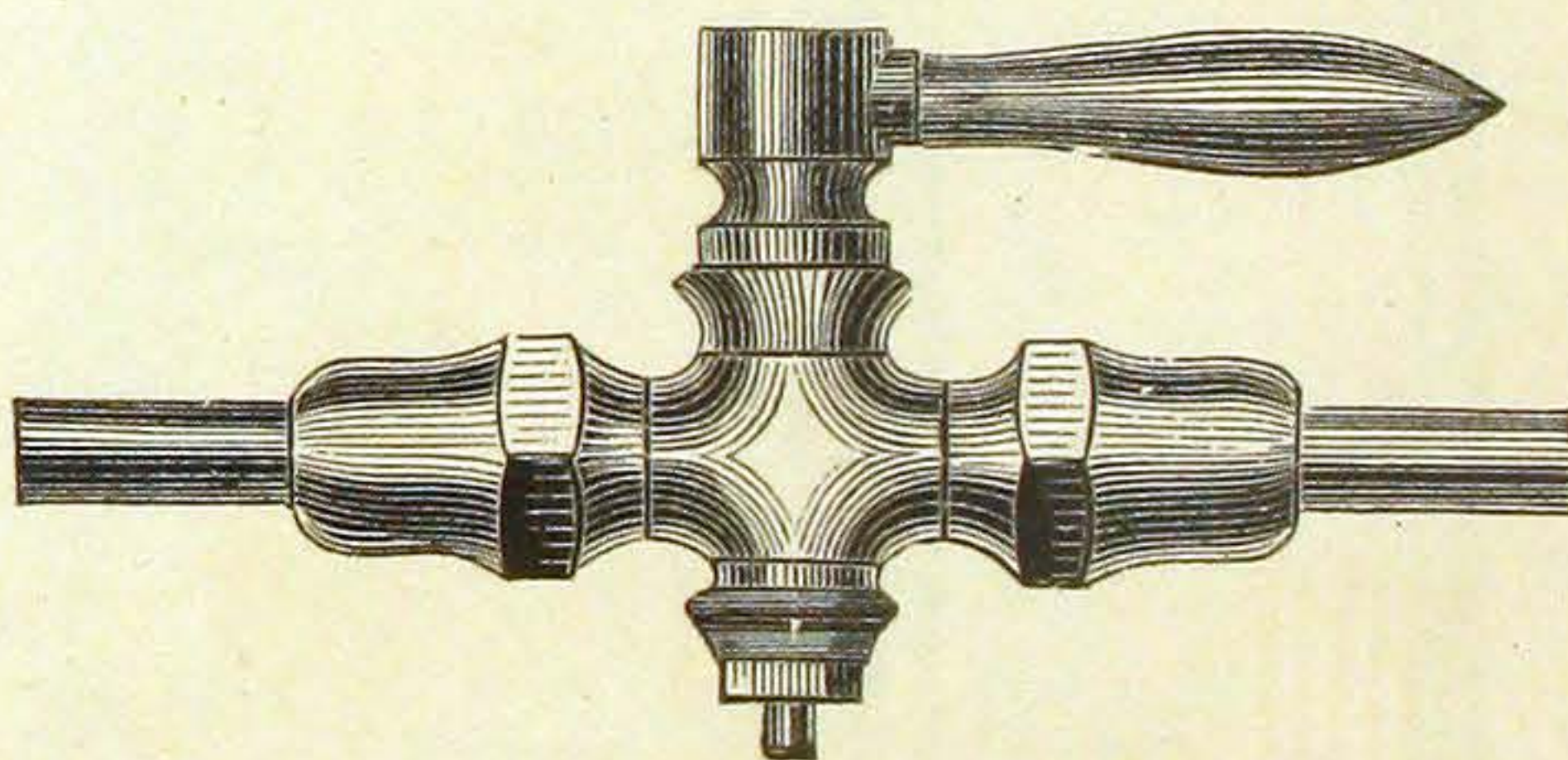
## STEAM STOPS.

Fig. 104.



Single Coupling.

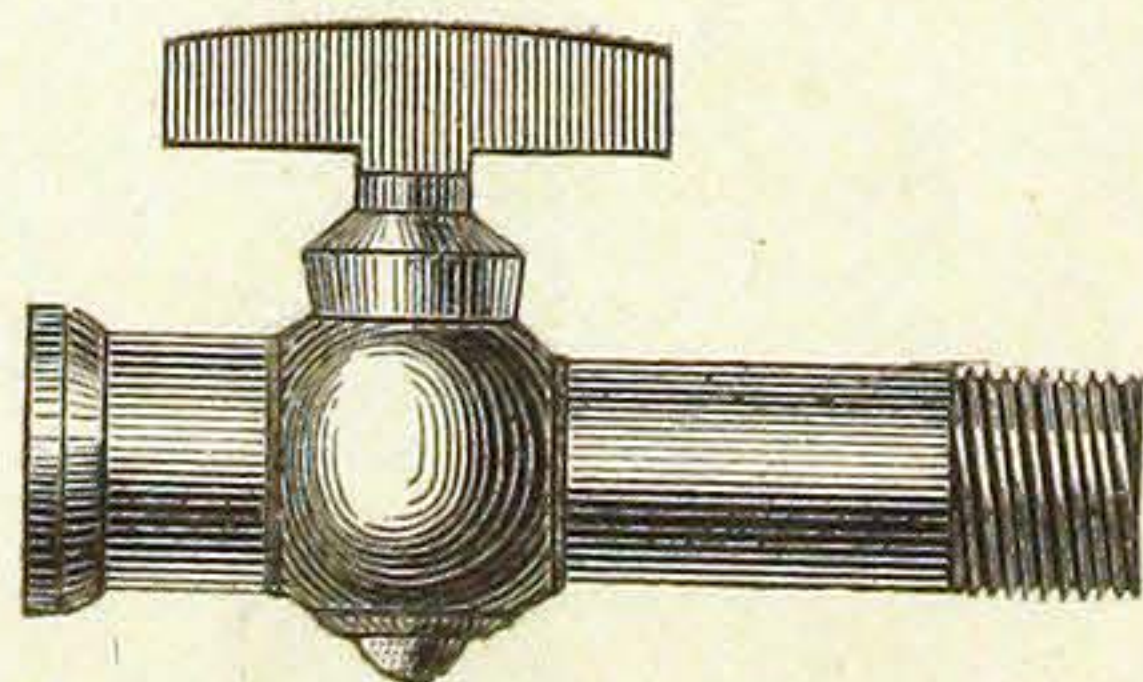
Fig. 105.



Double Coupling.

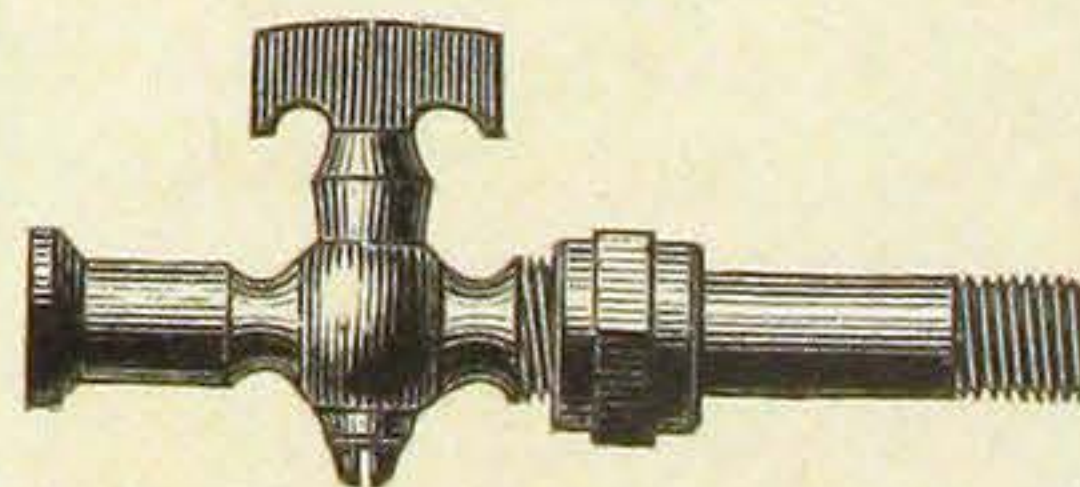
## STEAM GAUGE COCKS.

Fig. 106.



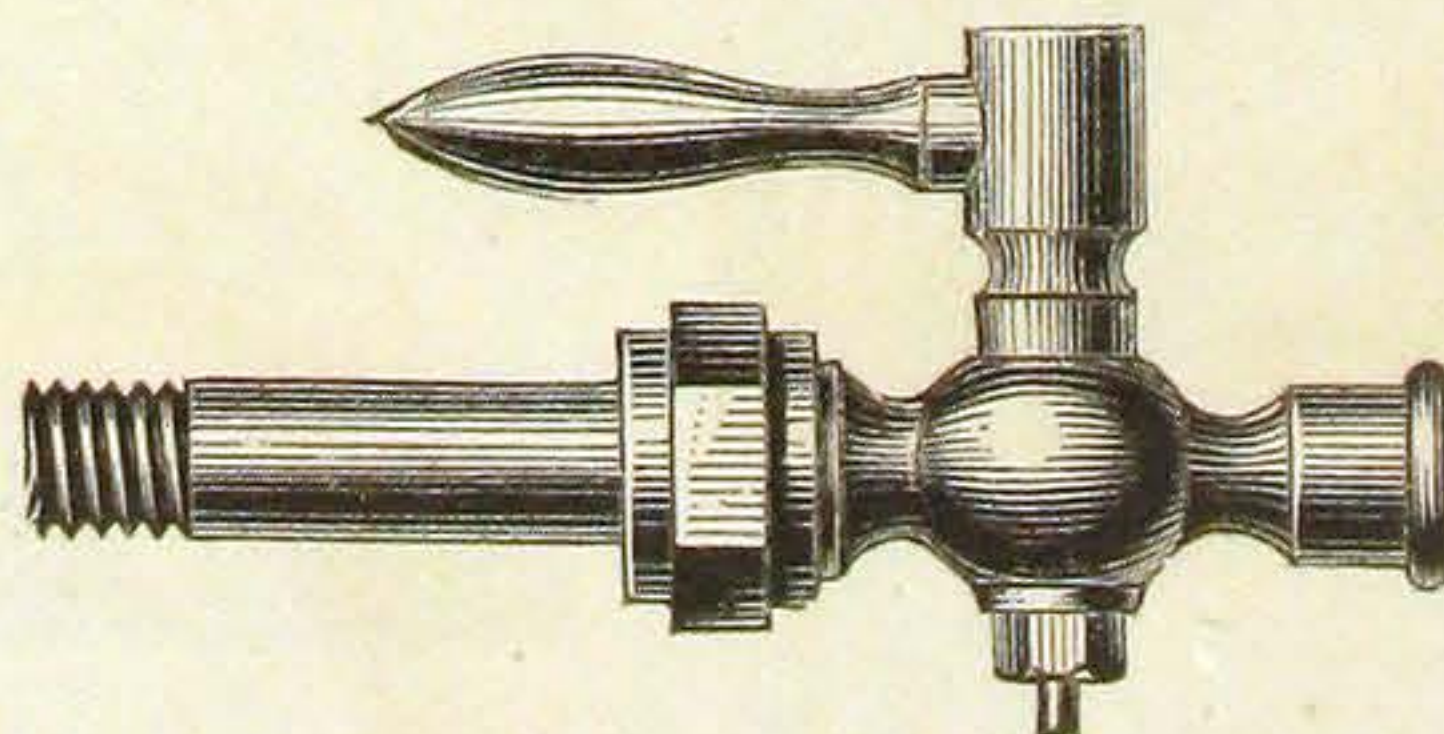
Plain.

Fig. 107.



With Union, T Handle.

Fig. 108.

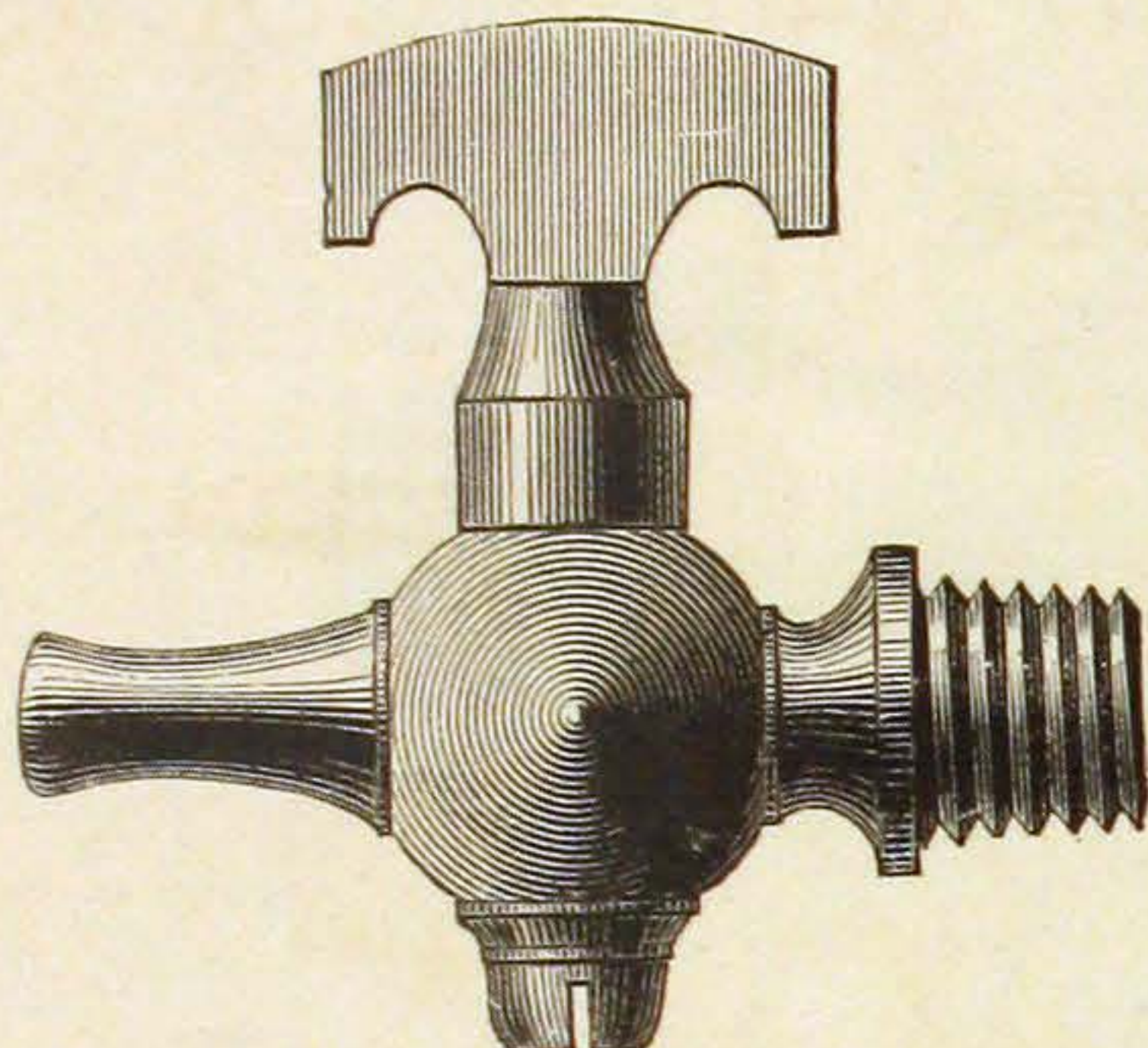


With Union, Lever Handle.



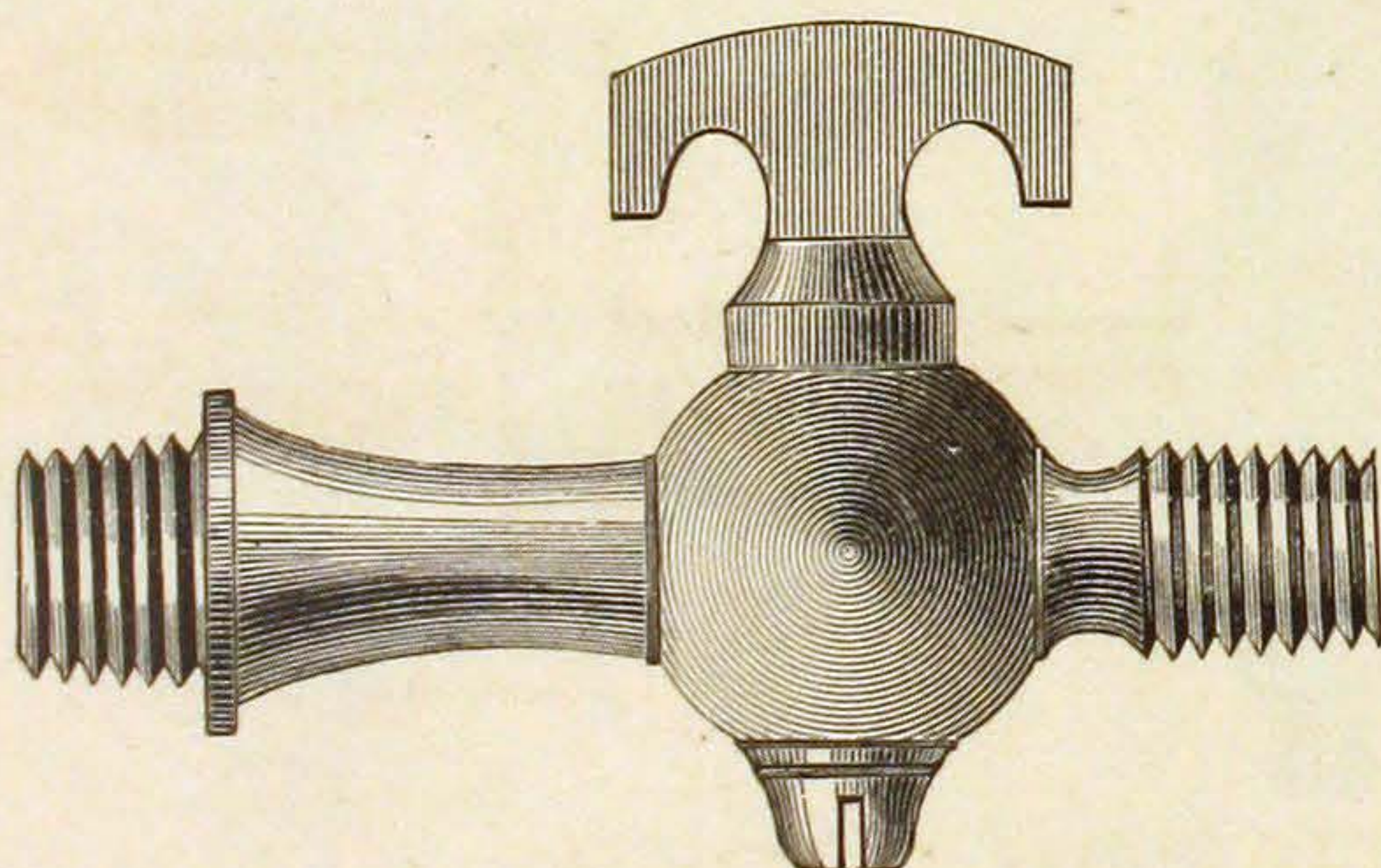
# AIR COCKS.

**Fig. 109.**  
Single Thread.



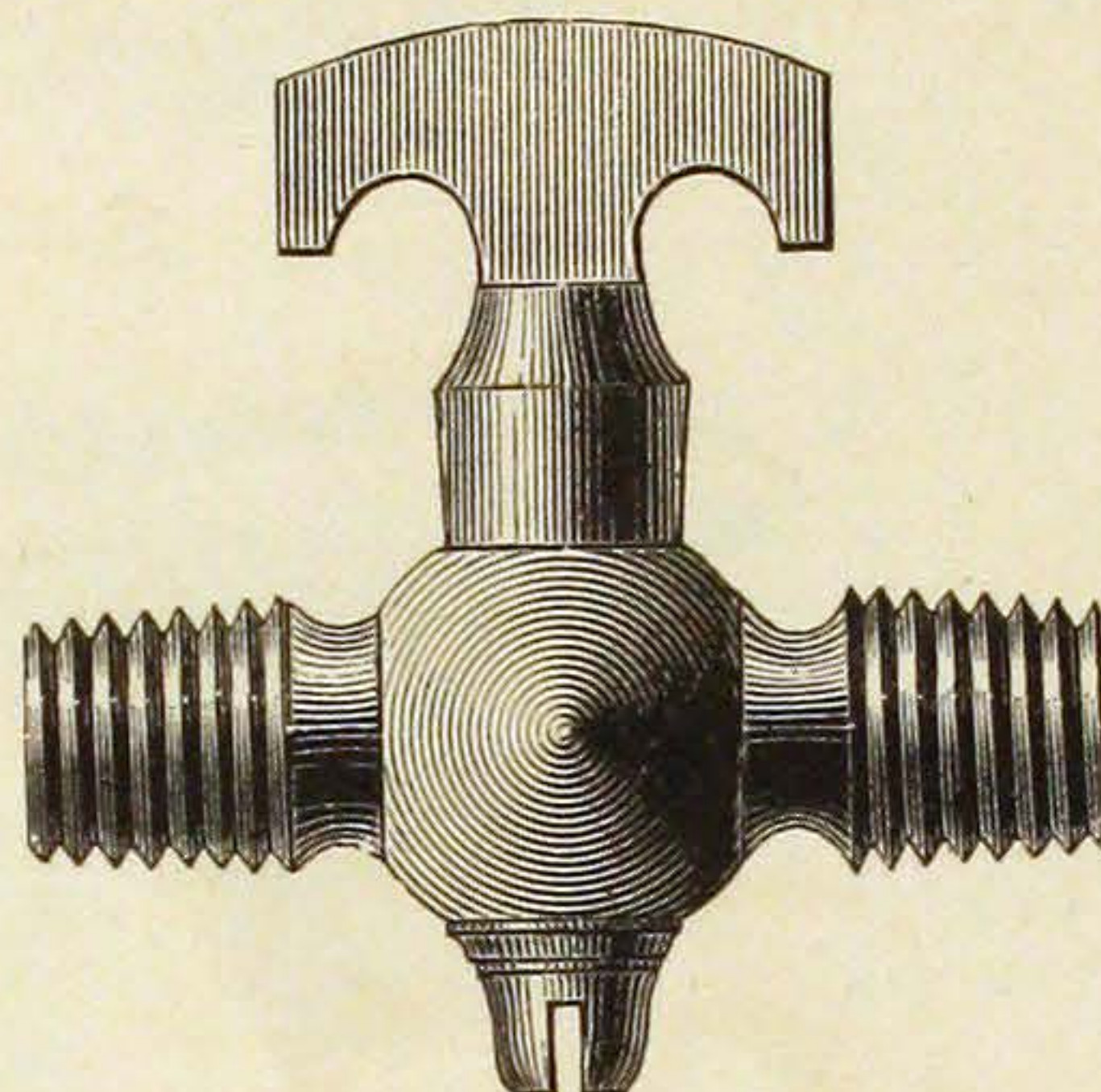
$\frac{1}{4}$  in. Full Size.

**Fig. 111.**  
Long Shank.



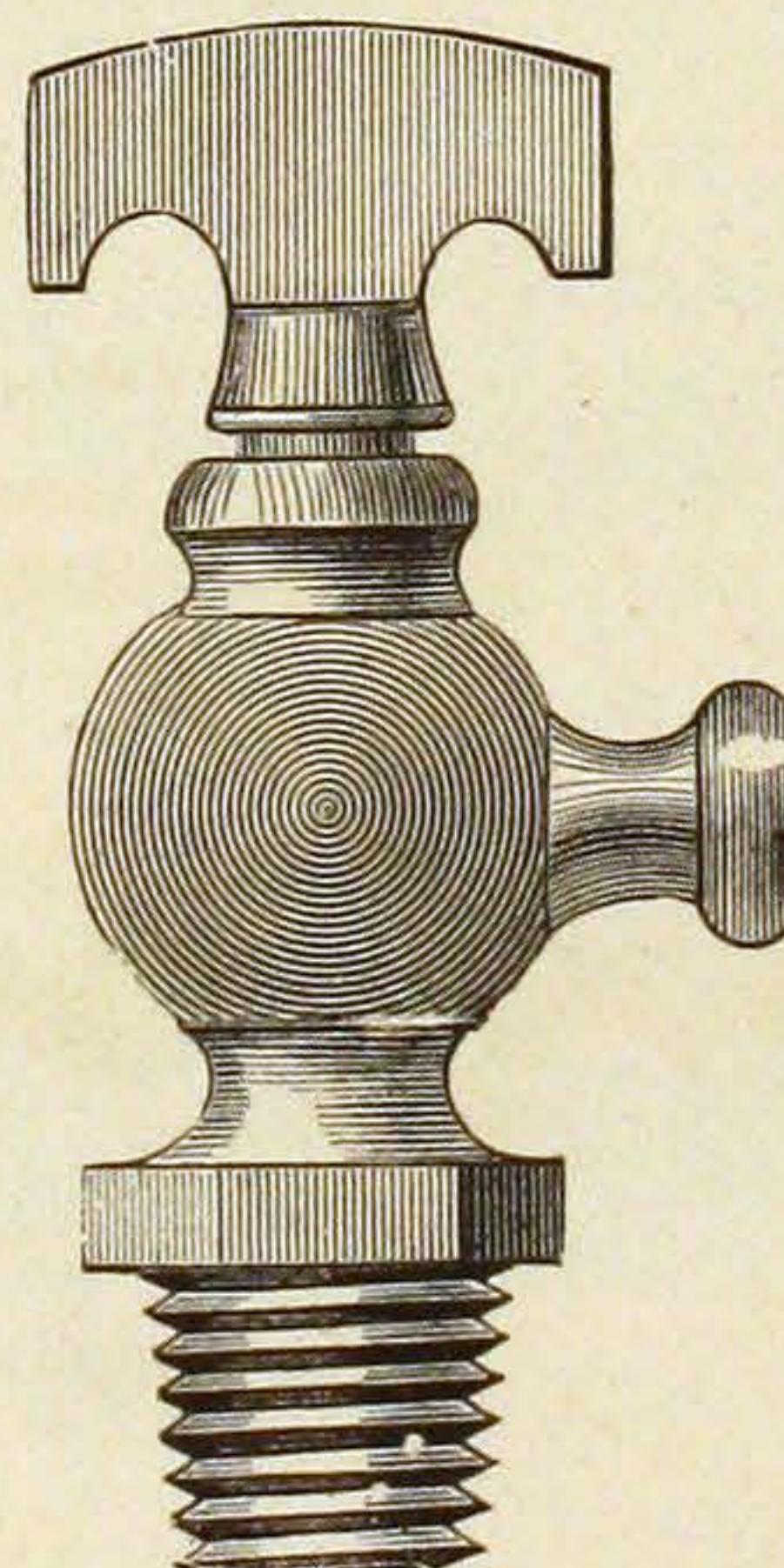
$\frac{1}{4}$  in. Full Size.

**Fig. 110.**  
Double Thread.



$\frac{1}{4}$  in. Full Size.

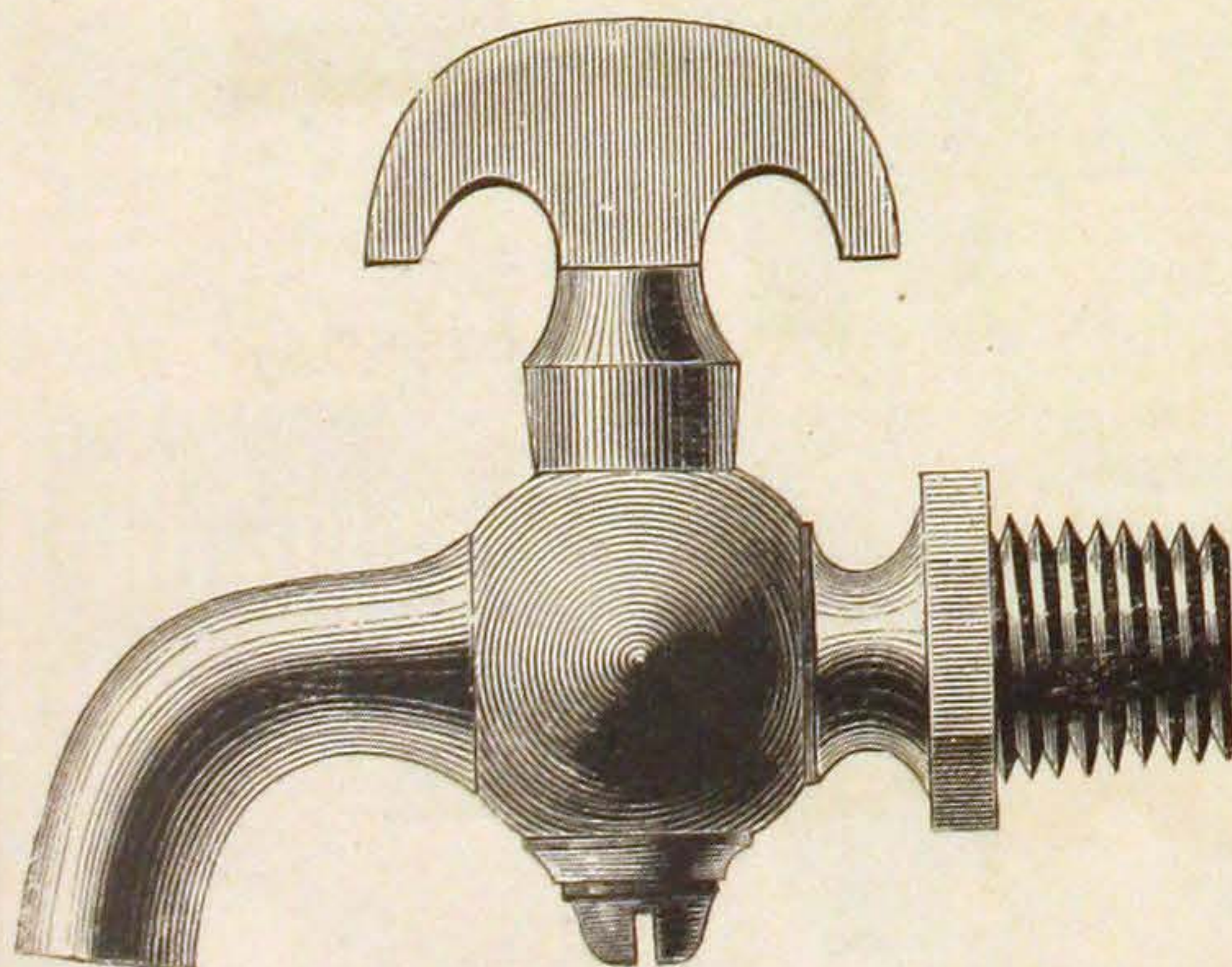
**Fig. 112.**  
Compression.



$\frac{1}{4}$  in. Full Size.

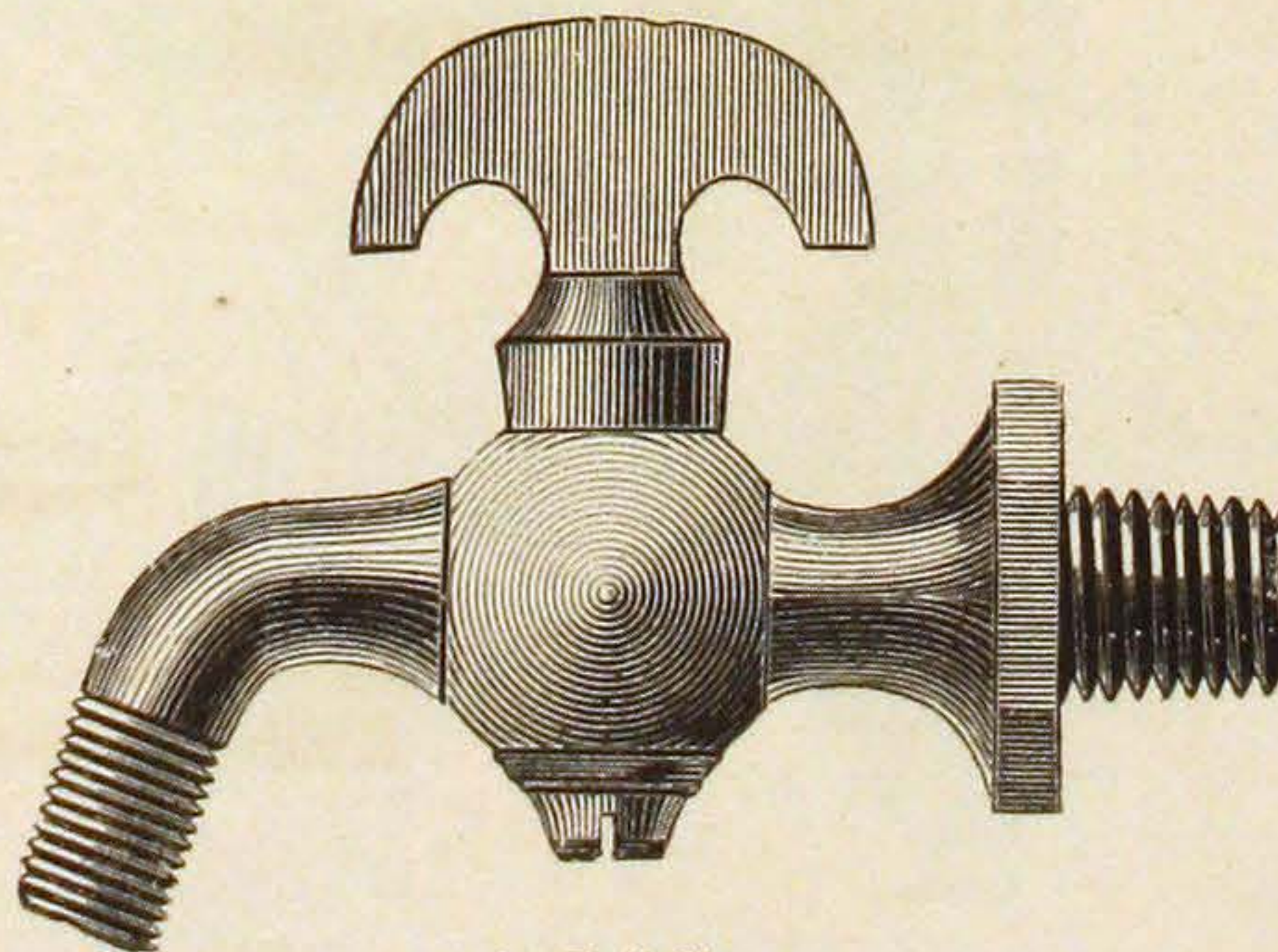
## BIBB NOZZLE AIR COCKS.

**Fig. 113.**  
Single Thread.



$\frac{1}{4}$  in. Full Size.

**Fig. 114.**  
Double Thread.

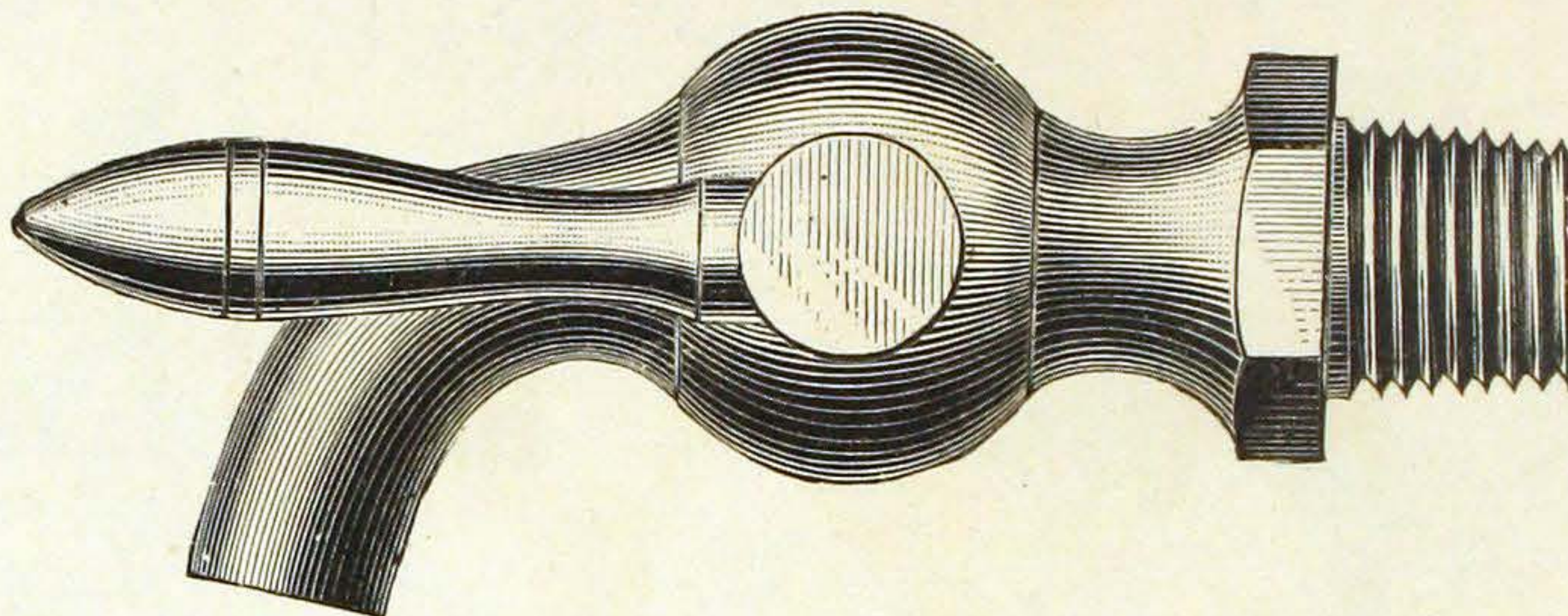


$\frac{1}{4}$  in. Full Size.



# CYLINDER COCKS. BIBB NOZZLE.

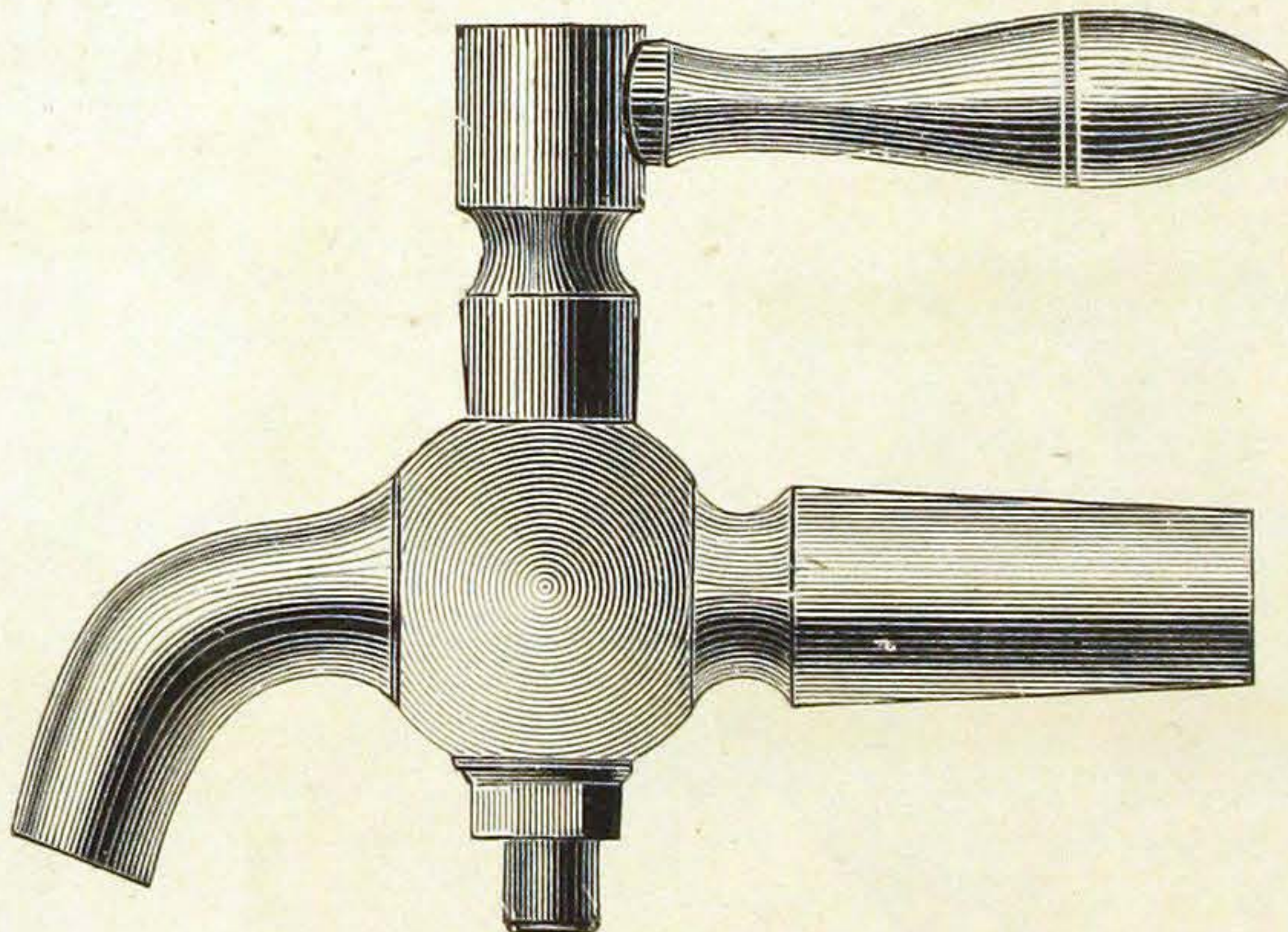
**Fig. 115.**  
Handle on Side.



$\frac{3}{8}$  in. Full Size.

## LONG OR SCREW SHANK.

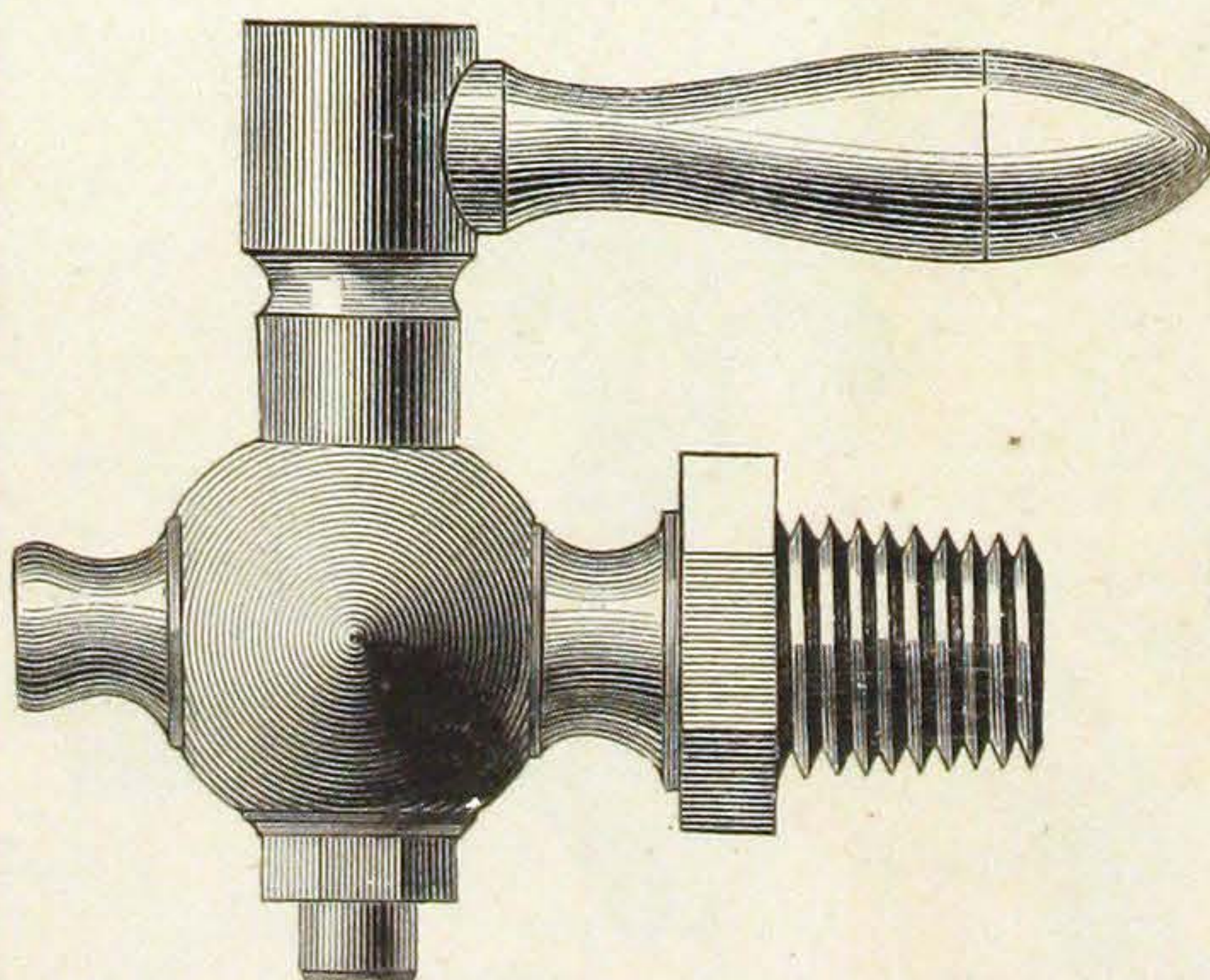
**Fig. 116.**



$\frac{1}{4}$  in. Full Size.

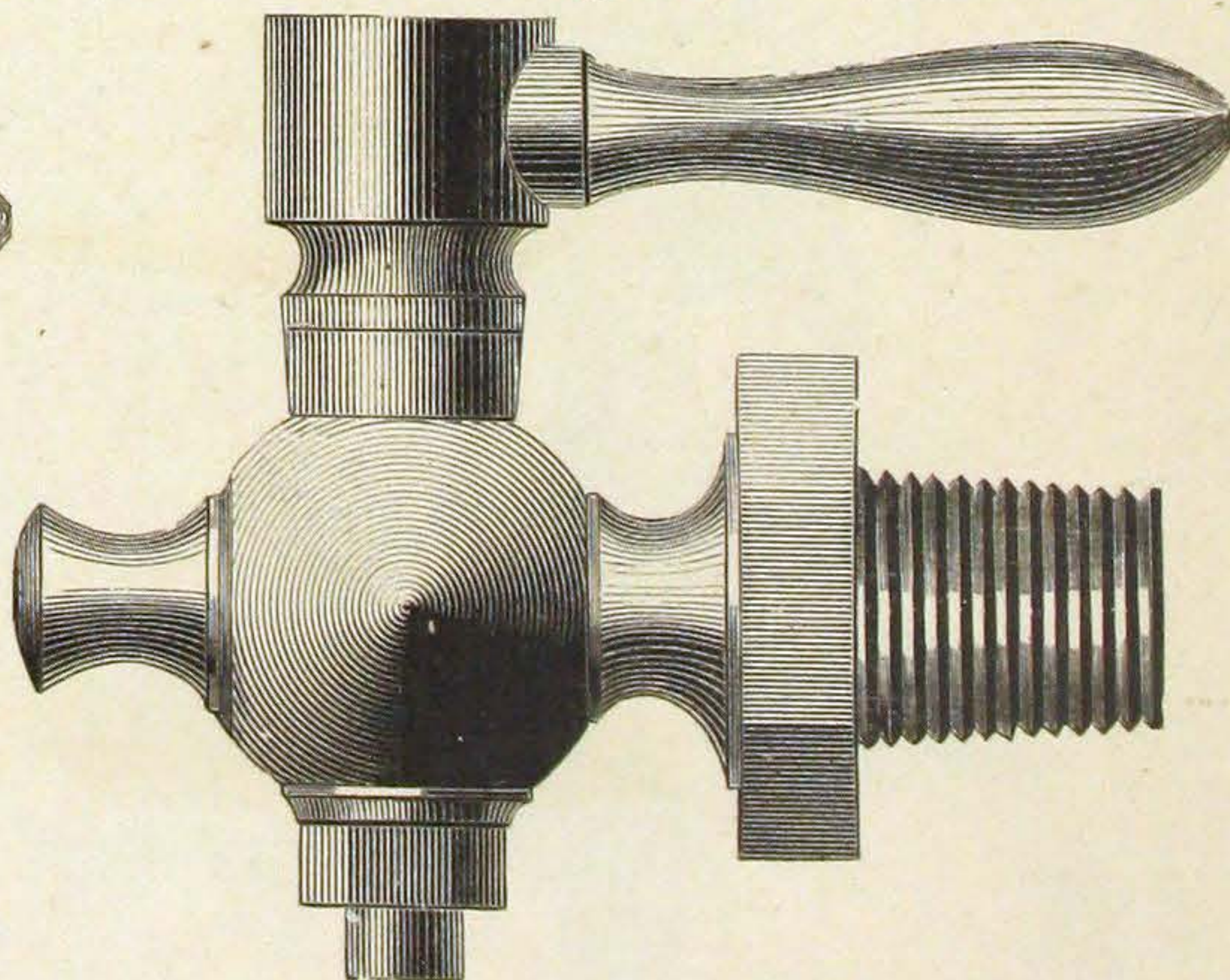
## SCREW SHANKS.

**Fig. 117.**



$\frac{1}{4}$  in. Full Size.

**Fig. 118.**

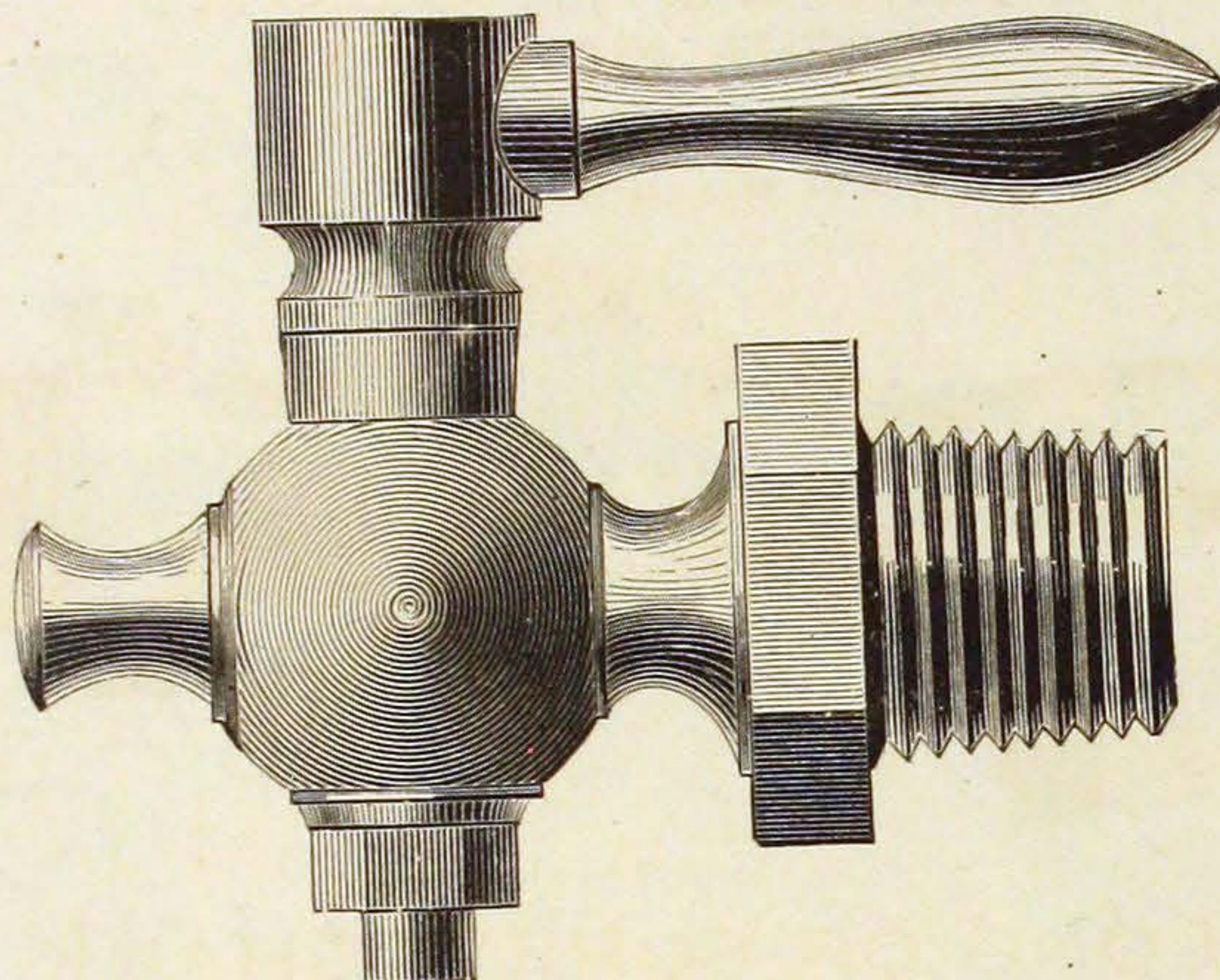


$\frac{3}{8}$  in. Full Size.



# CYLINDER COCKS. SCREW SHANK.

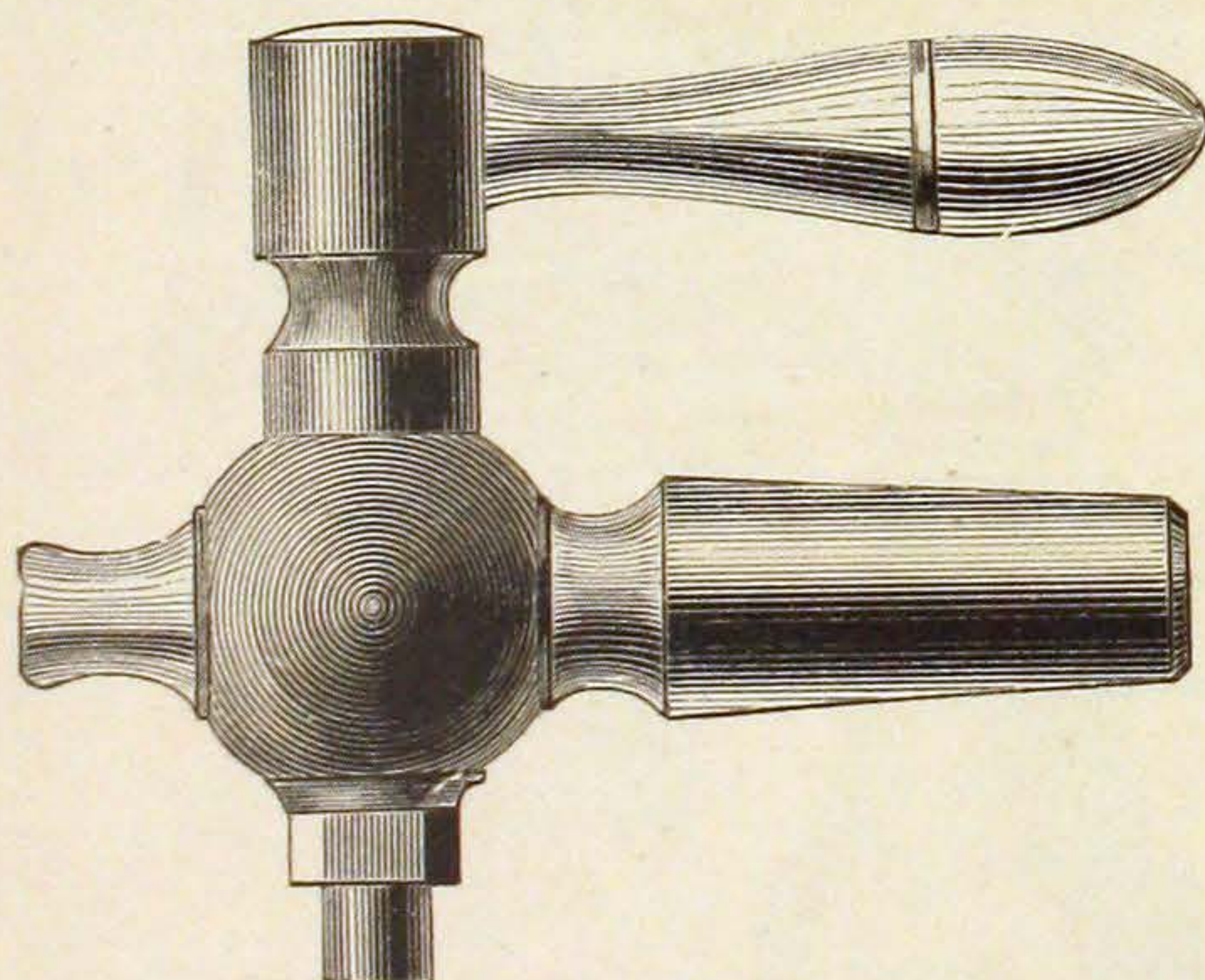
Fig. 119.



$\frac{1}{4}$  in. Full Size.

## LONG SHANK.

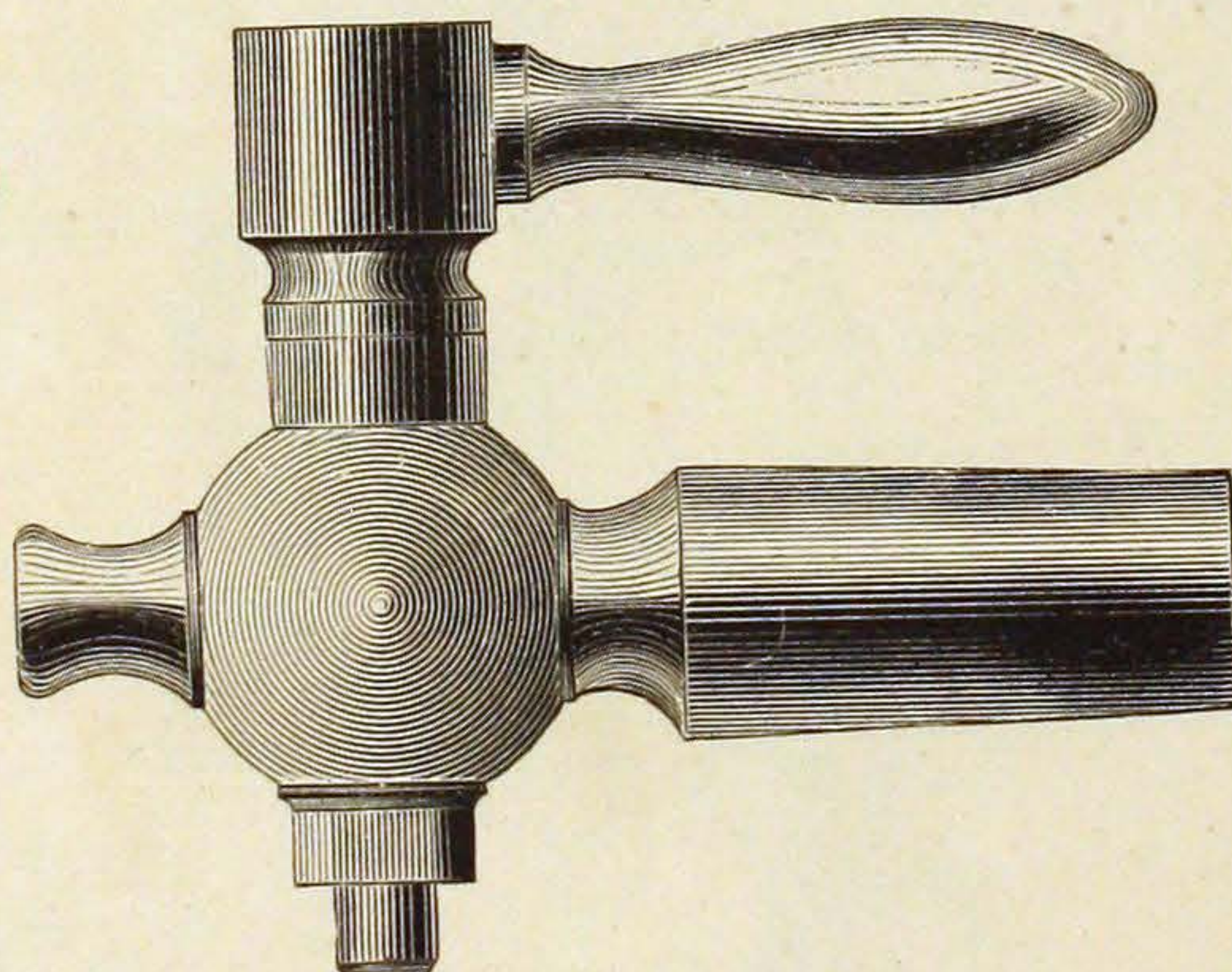
Fig. 120.



$\frac{1}{4}$  in. Full Size.

## LONG SHANK.

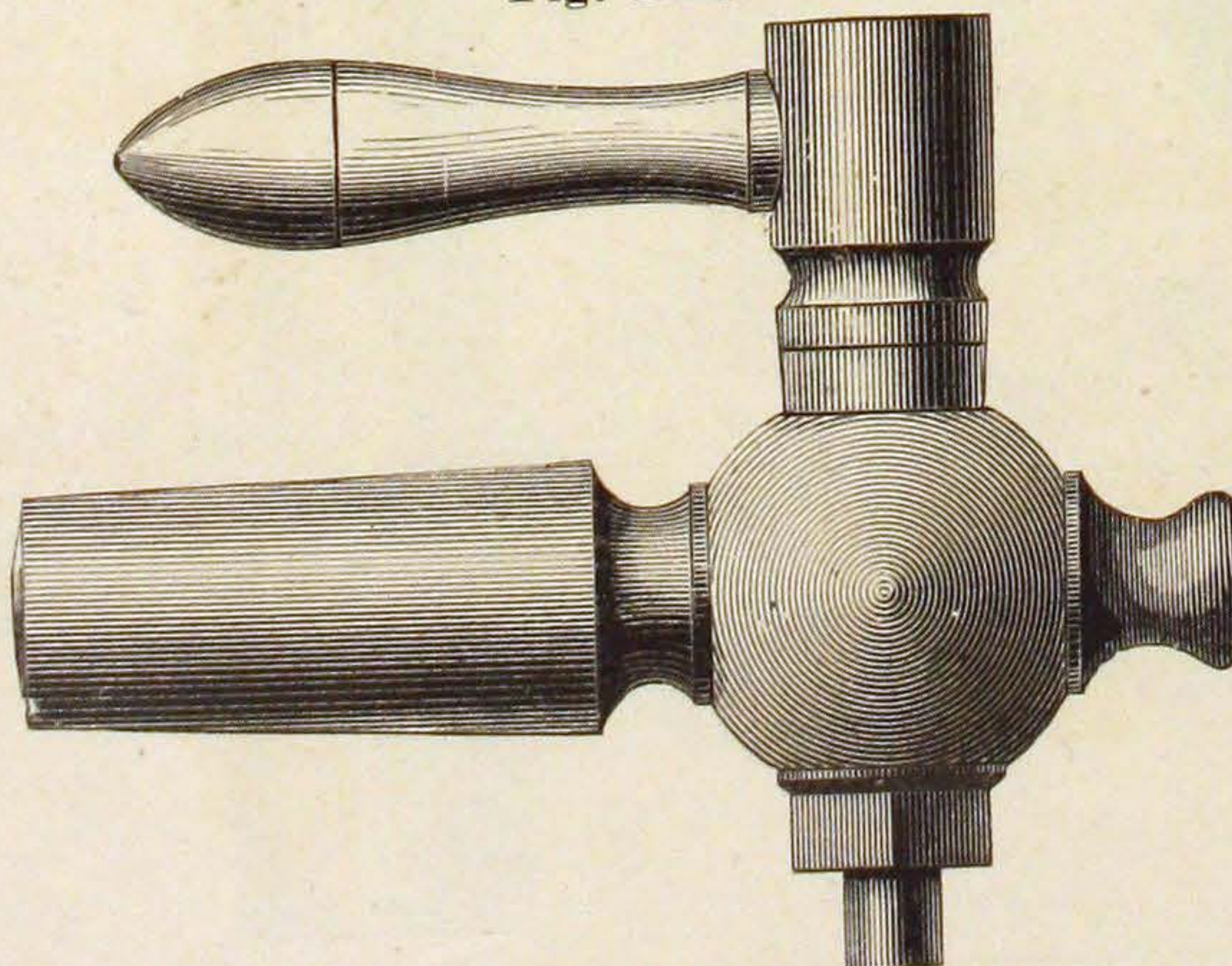
Fig. 121.



$\frac{1}{4}$  in. Full Size.

## LONG SHANK.

Fig. 122.

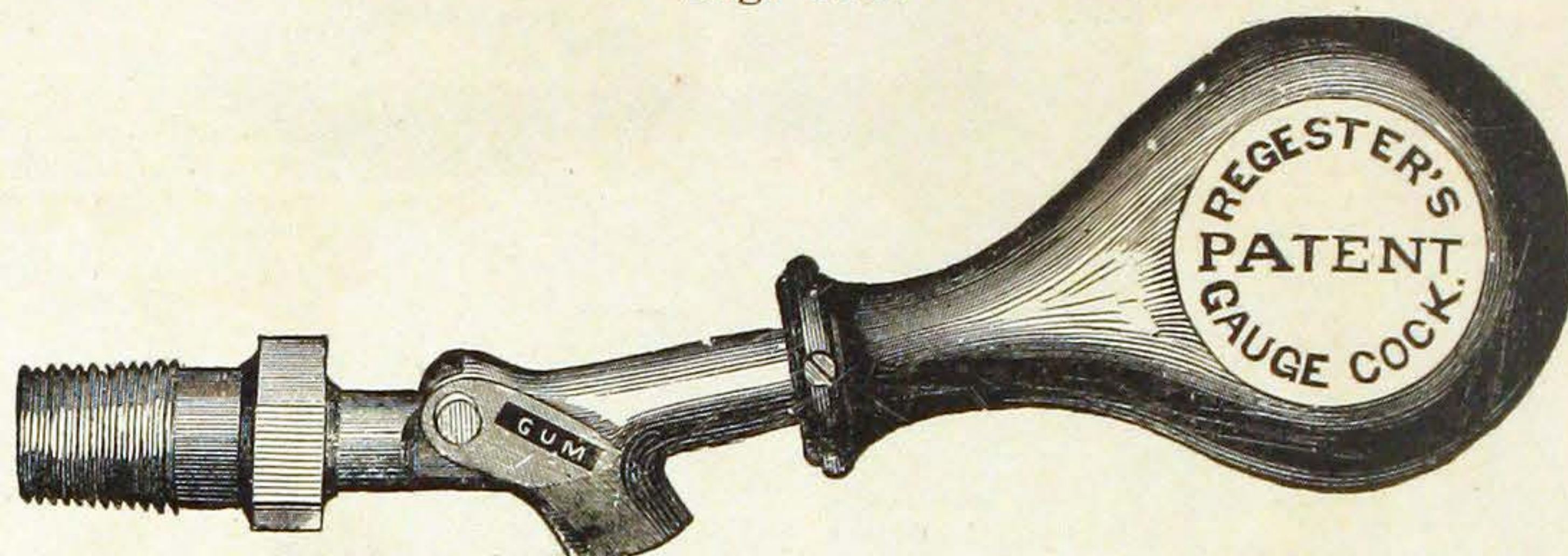


$\frac{1}{4}$  in. Full Size.



GAUGE COCKS.  
 REGESTER'S PATENT GAUGE COCKS.  
 IRON OR BRASS BALLS.

Fig. 123.

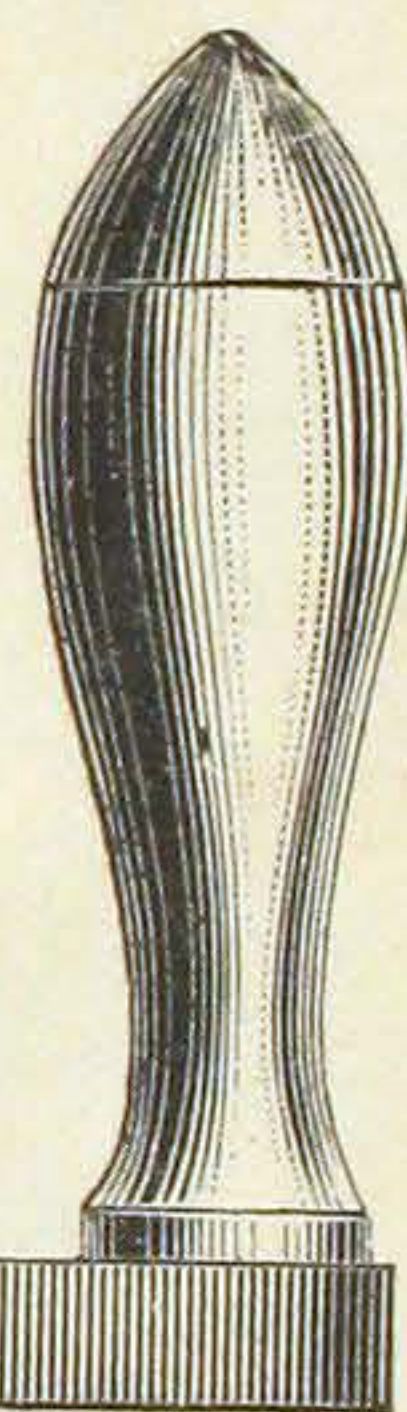


Cut for any size of pipe, or Blank.

COMPRESSION GAUGE COCKS.

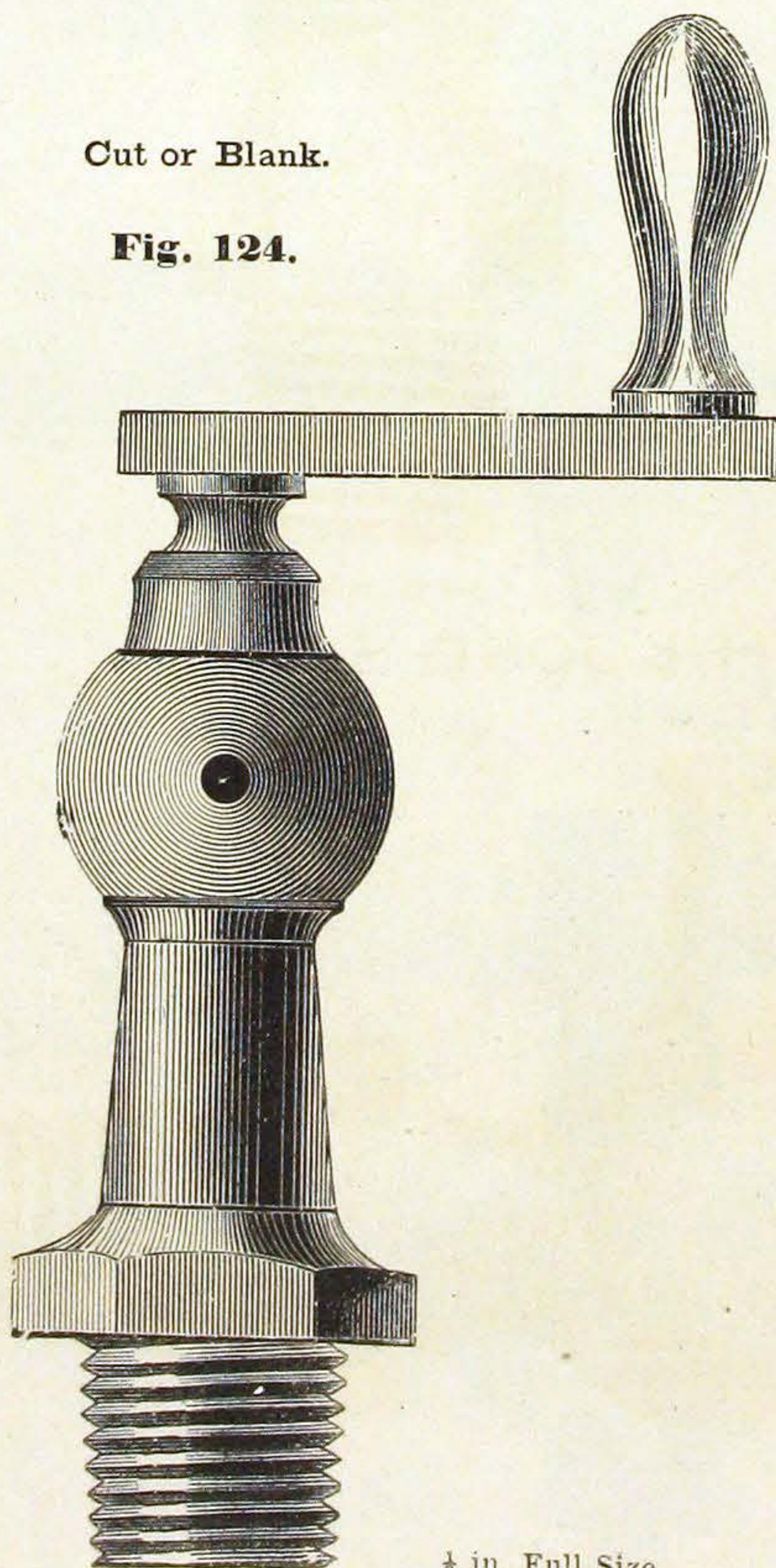
Loose Seat.

Fig. 125.

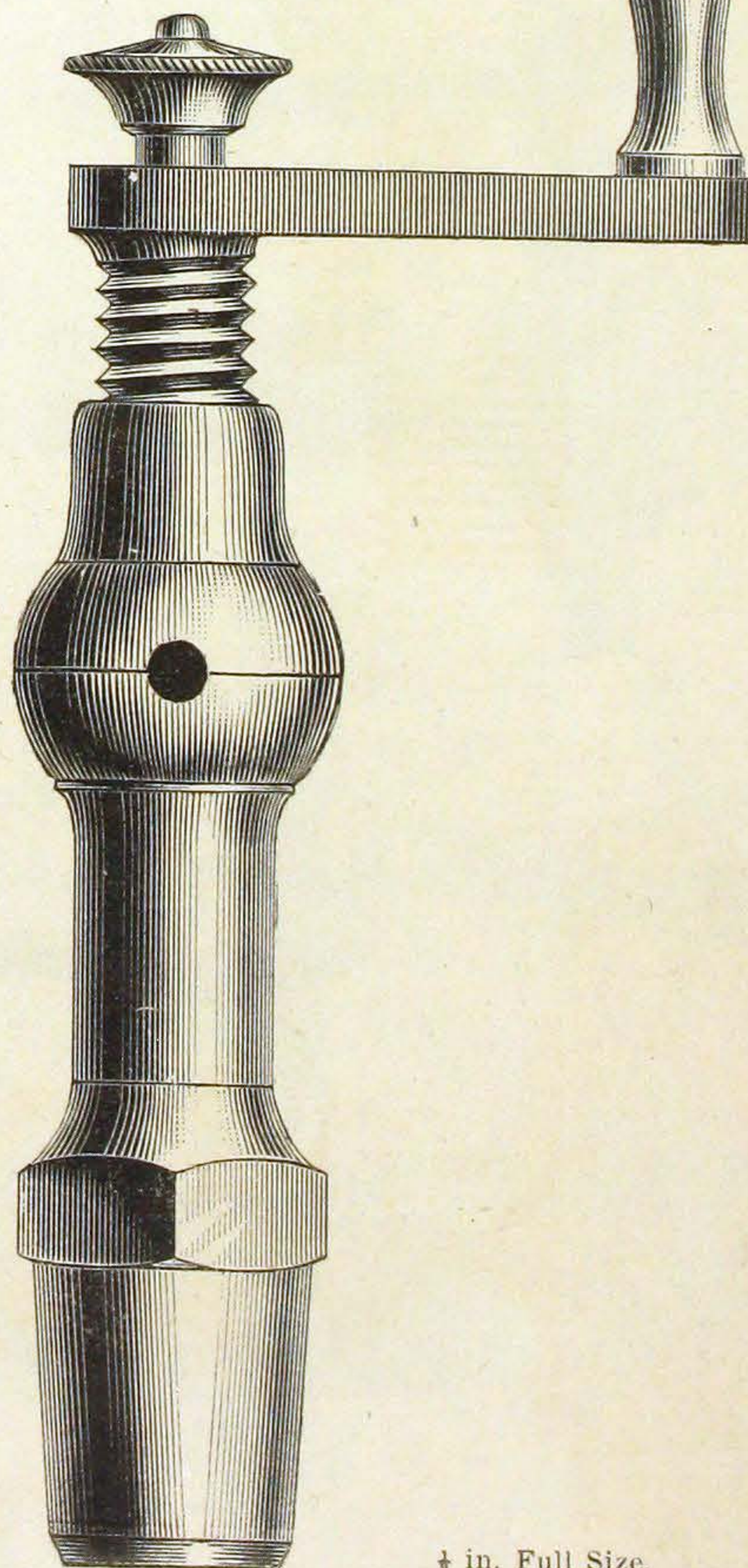


Cut or Blank.

Fig. 124.



$\frac{1}{4}$  in. Full Size.



$\frac{1}{4}$  in. Full Size.

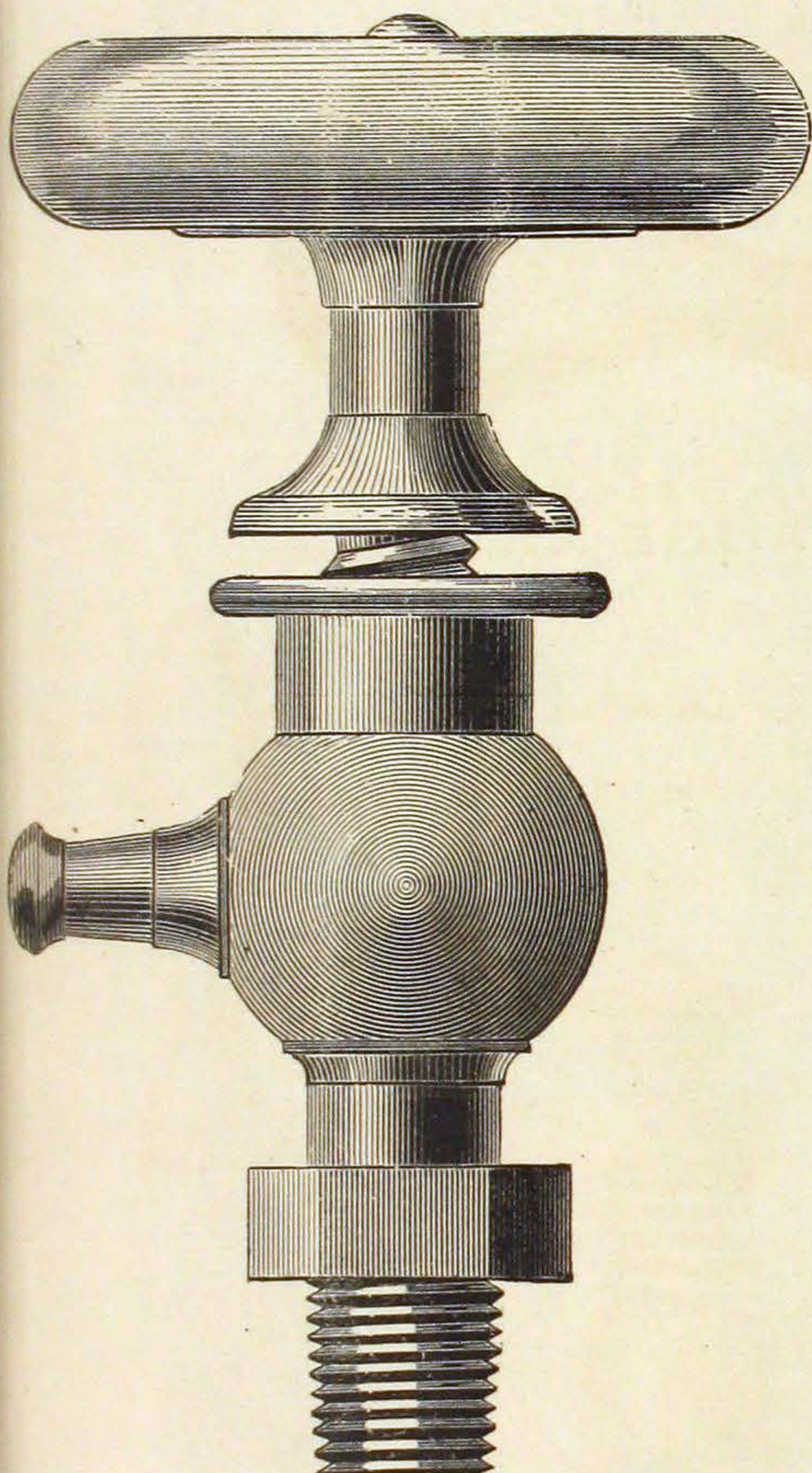


# GAUGE COCKS.

27

PAT. WOOD HANDLE.

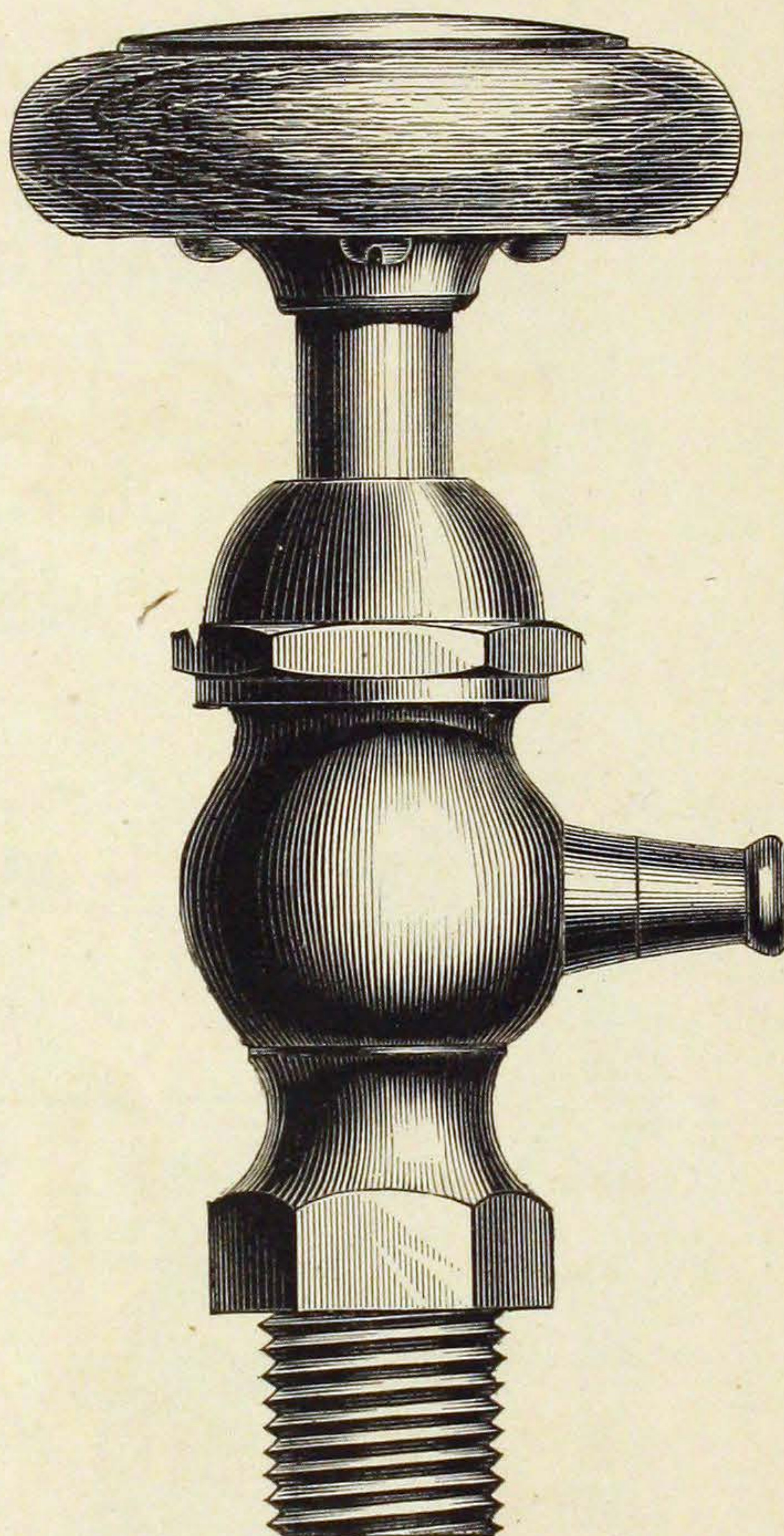
Fig. 126.



$\frac{1}{2}$  in. Full Size.

COM. WOOD HANDLE.

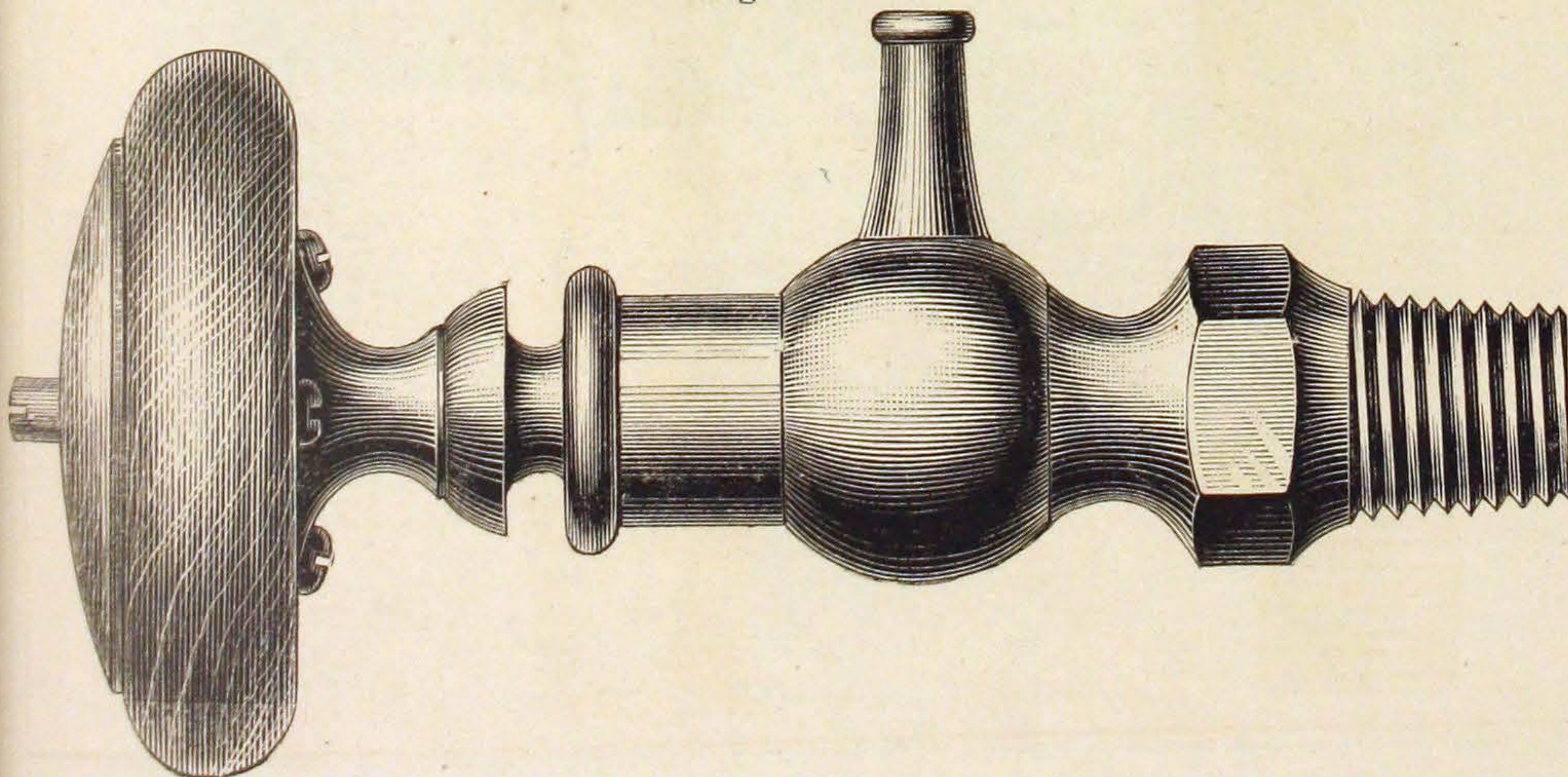
Fig. 127.



$\frac{1}{2}$  in. Full Size.

WOOD HANDLE, WITH LOOSE SEAT.

Fig. 128.



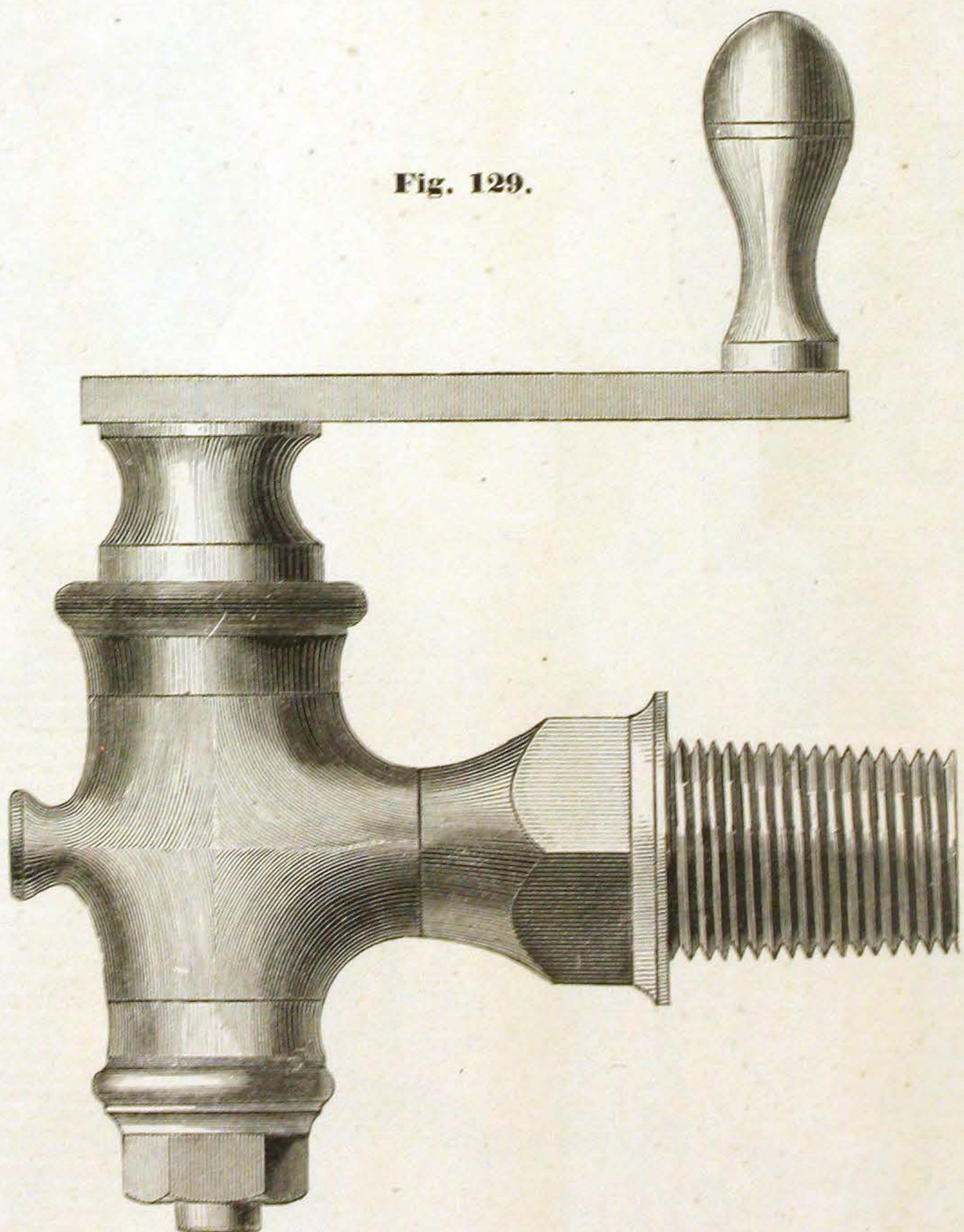
$\frac{1}{2}$  in. Full Size.



## GAUGE COCKS.

## PLUG GAUGE COCK.

Fig. 129.

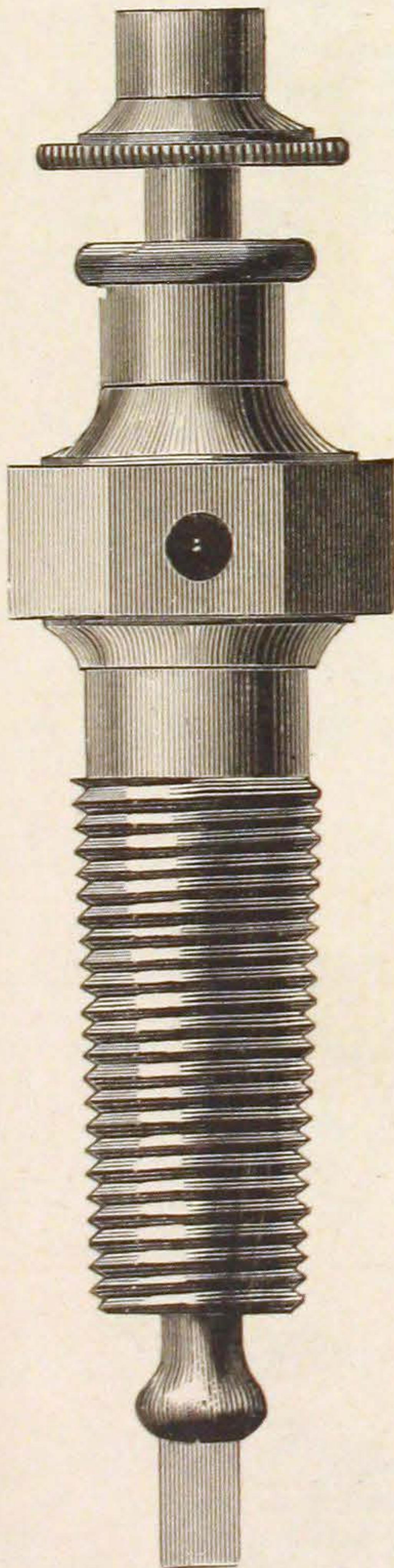
 $\frac{1}{4}$  in. Full Size.



# MISSISSIPPI GAUGE COCKS.

Cut.

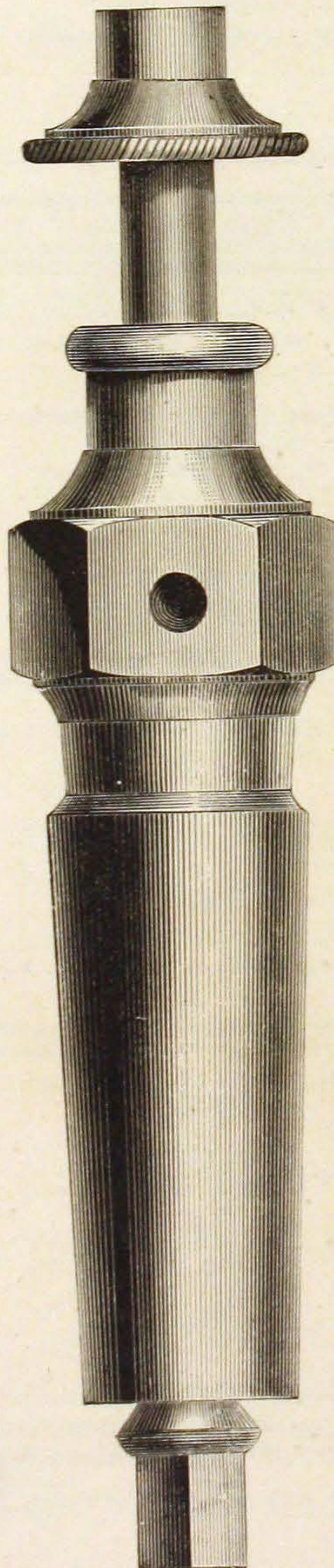
**Fig. 130.**



$\frac{1}{4}$  in. Full Size.

Plain.

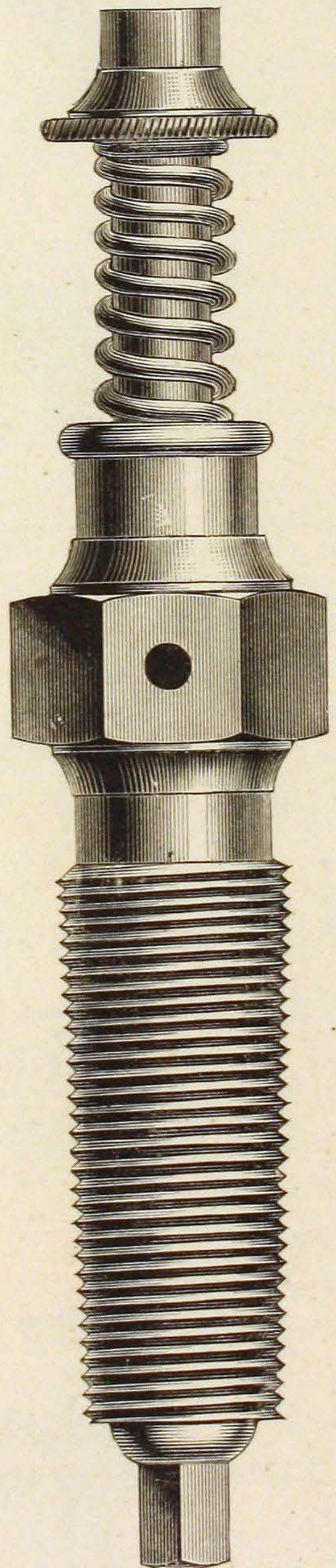
**Fig. 131.**



$\frac{1}{8}$  in. Full Size.

With Spring.

**Fig. 132.**



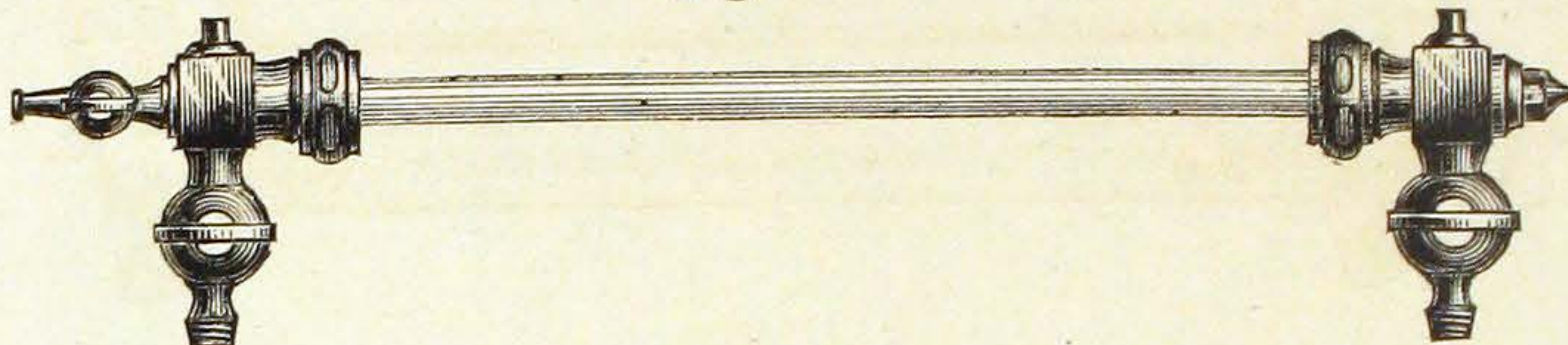
$\frac{1}{8}$  in. Full Size.



## WATER GAUGES.

No. OO.

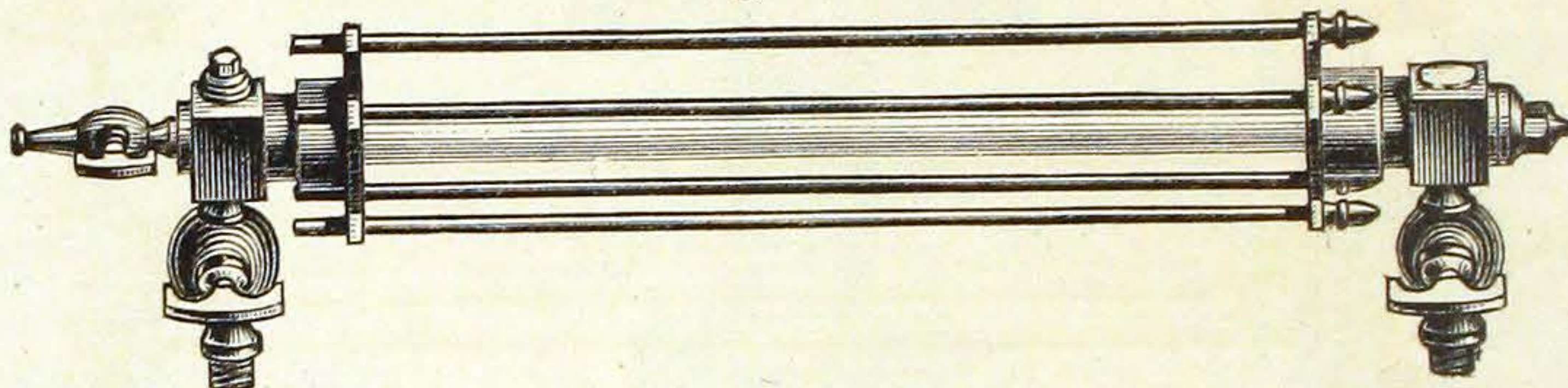
Fig. 133.



For  $\frac{1}{2}$  in. Pipe.  
Brass Cock, no Guards.

No. O.

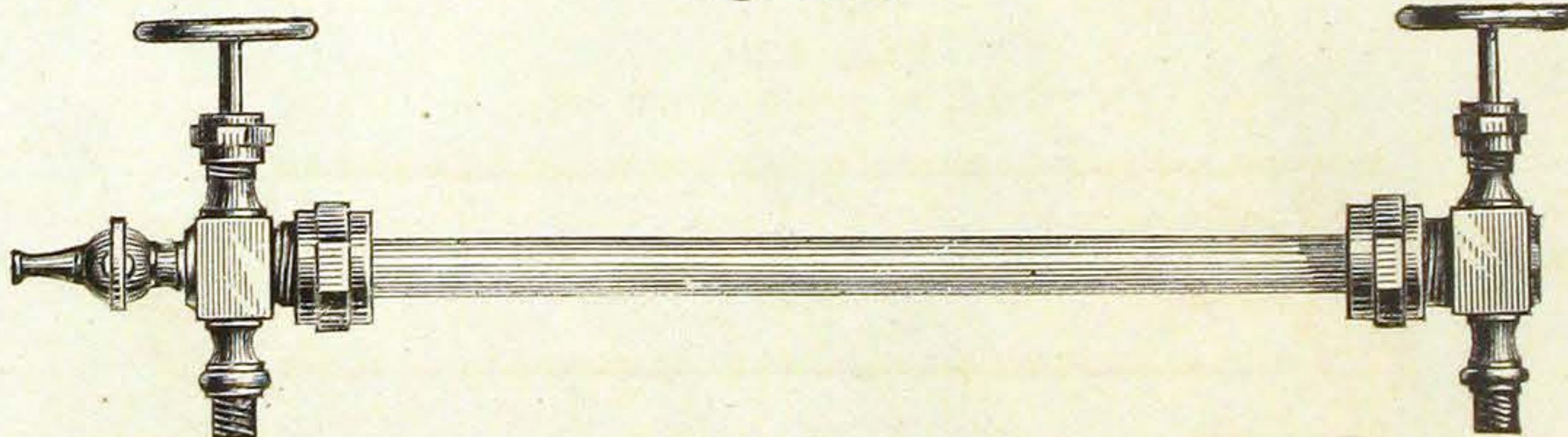
Fig. 134.



For  $\frac{1}{2}$  in. Pipe.  
Brass Cock, Four Guards.

No. 1.

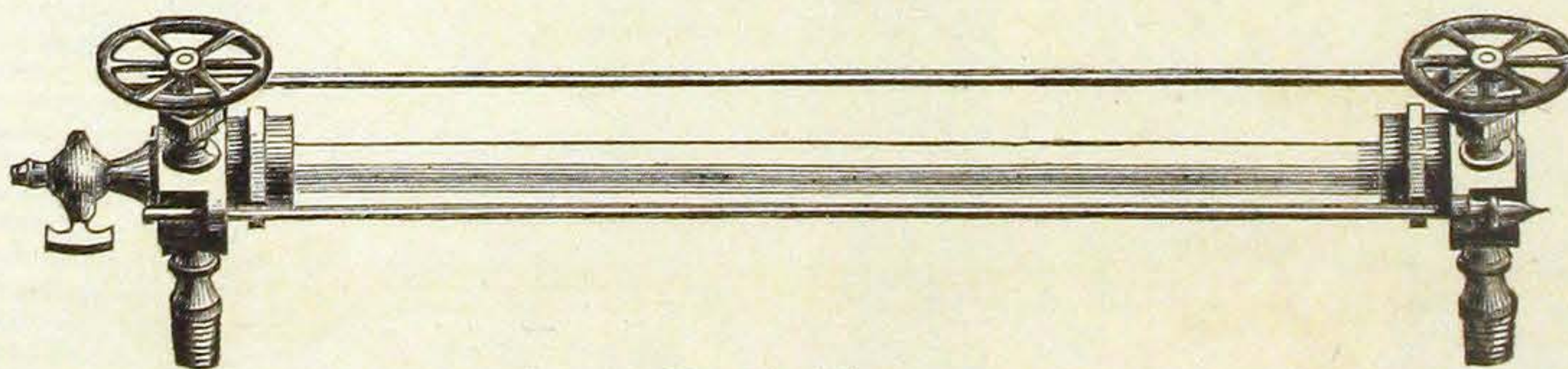
Fig. 135.



For  $\frac{1}{2}$  in. Pipe.  
Iron Wheel, no Guards.

No. 2.

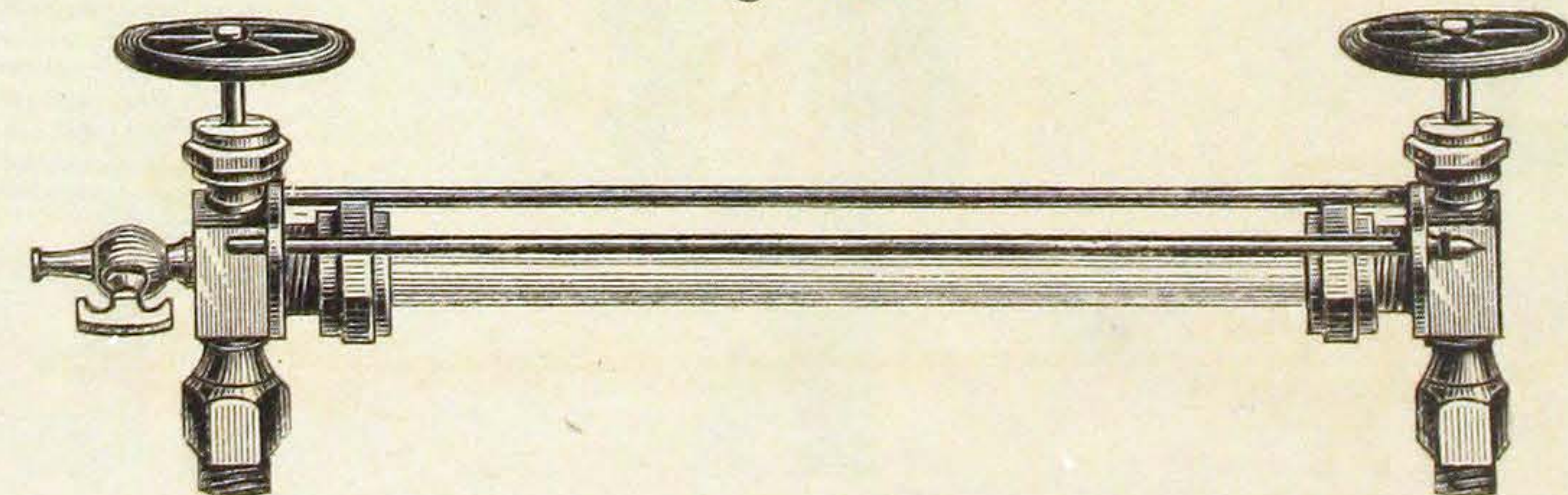
Fig. 136.



For  $\frac{1}{2}$  in. Pipe.  
Iron Wheel, Two Guards.

No. 3.

Fig. 137.

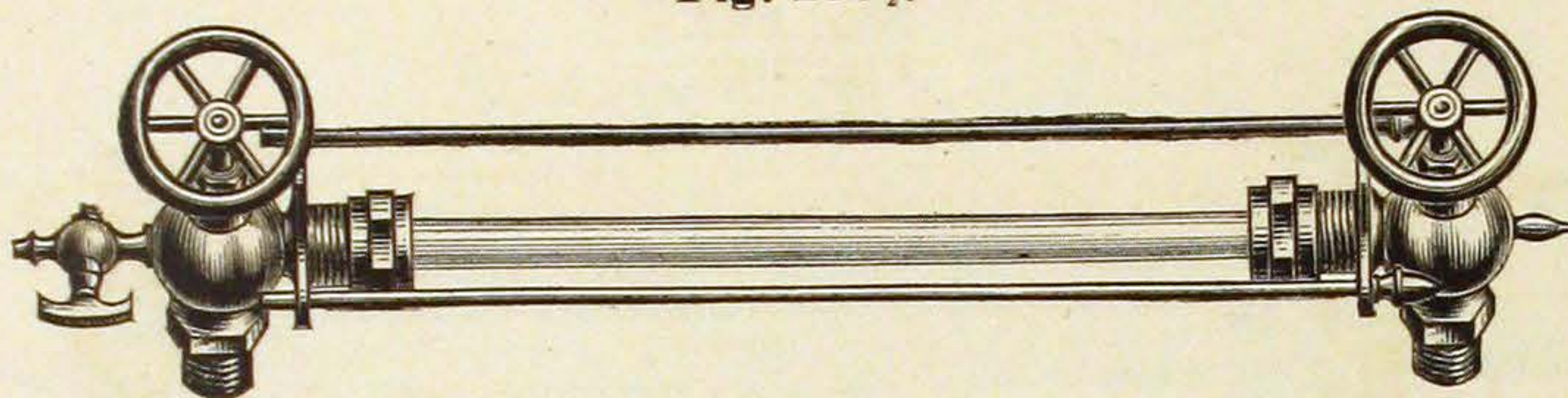


For  $\frac{1}{2}$  in. Pipe.  
Iron Wheel, Two Guards.



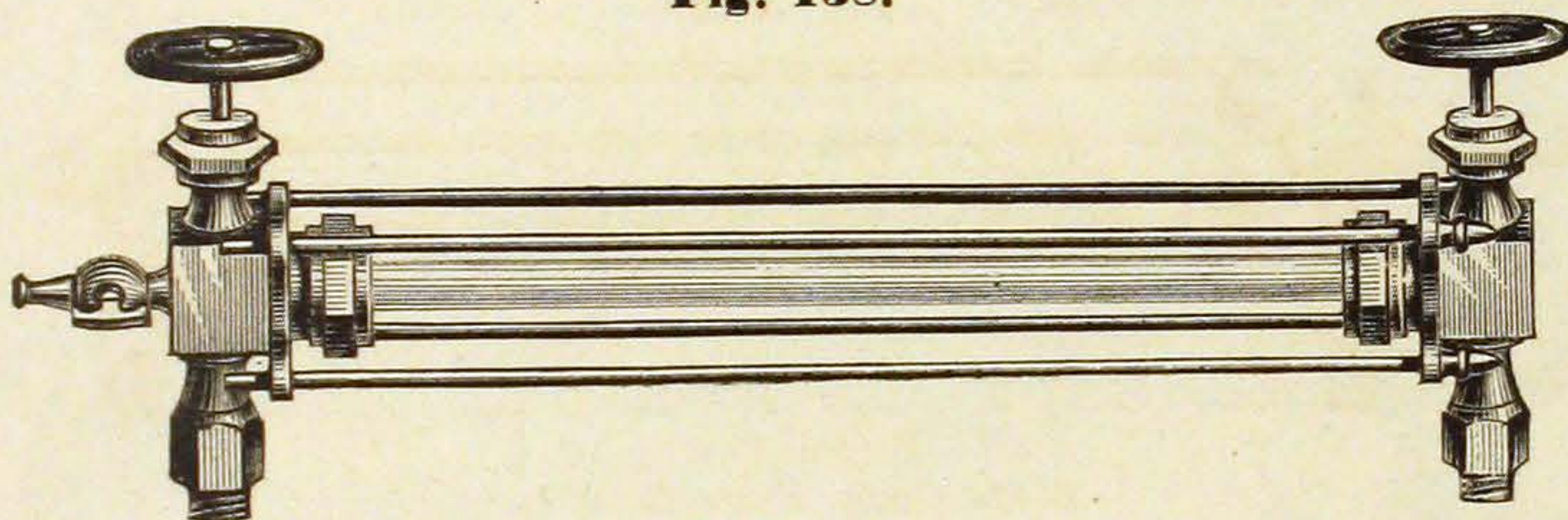
# WATER GAUGES.

No. 3½.  
Fig. 137½.



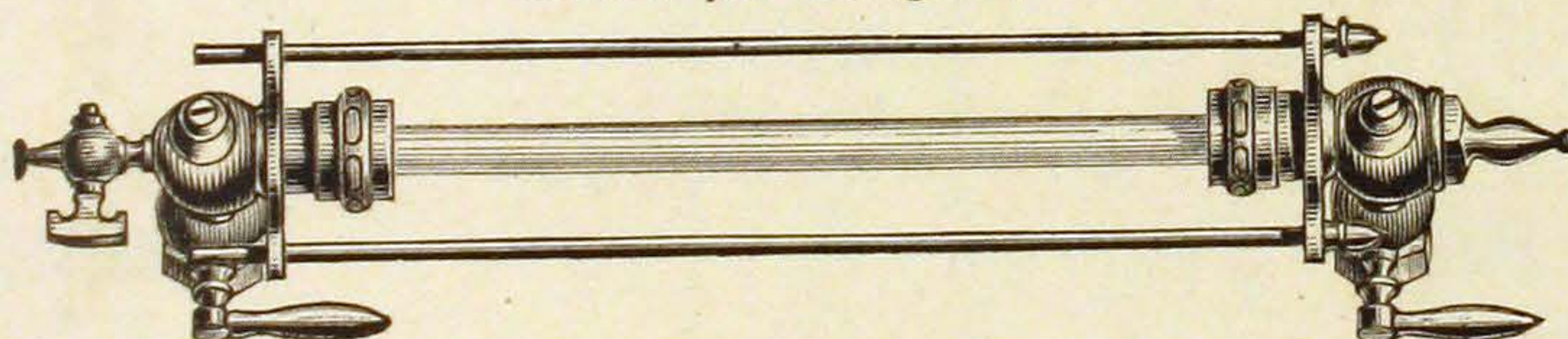
For ½ in. pipe.  
Iron Wheel, Two Guards.  
WITH WOOD OR BRASS WHEELS, TO ORDER.

No. 4.  
Fig. 138.



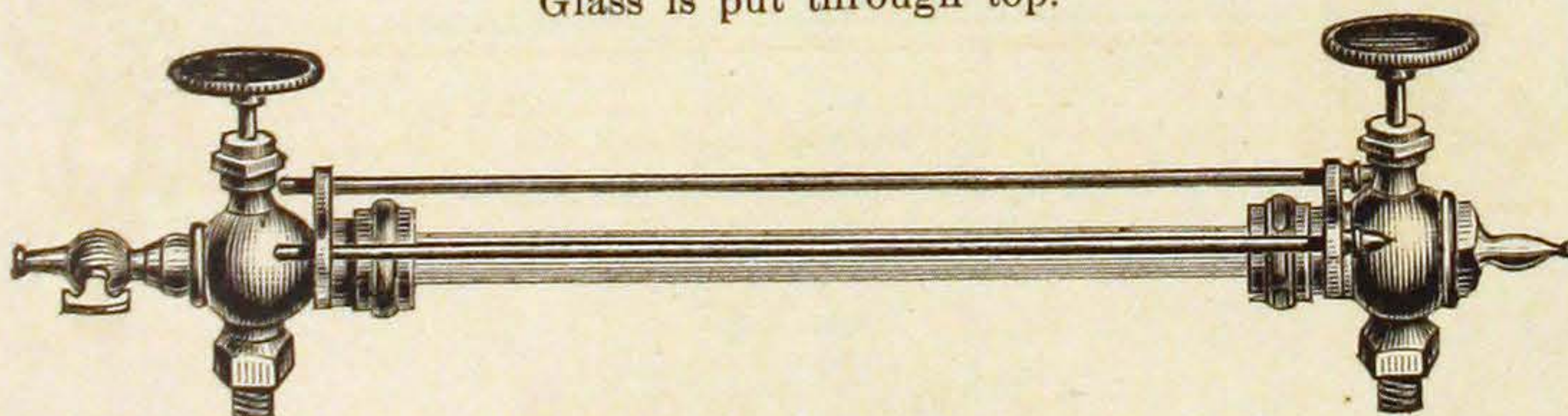
For ½ in. pipe.  
Iron Wheel, Four Guards.

No. 5.  
Fig. 139.  
Glass is put through top.



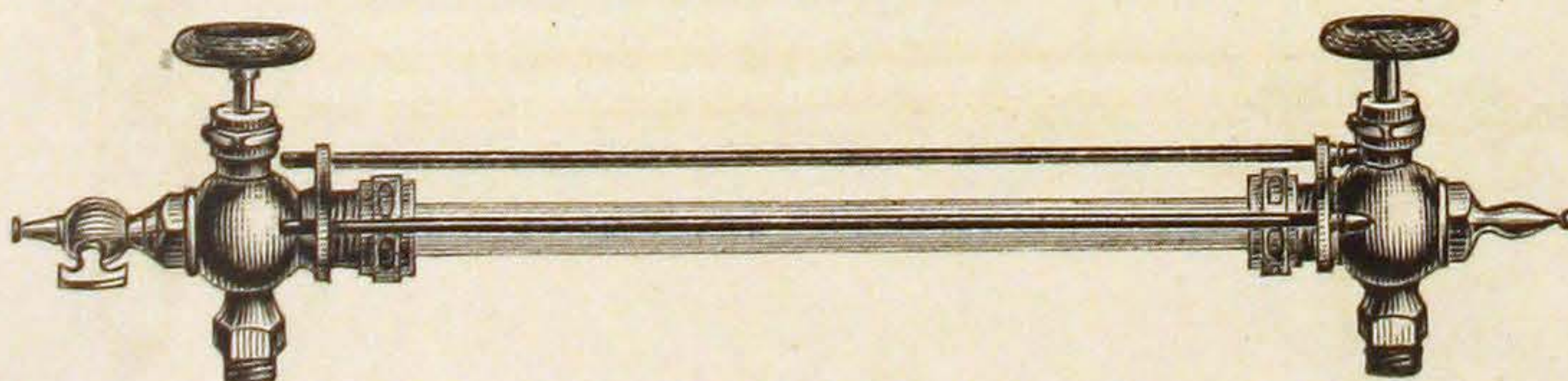
For ½ in. pipe.  
Brass Cock, Two Guards.

No. 6.  
Fig. 140.  
Glass is put through top.



For ½ in. pipe.  
Brass Wheel, Two Guards.

No. 7.  
Fig. 141.  
Glass is put through top.



For ½ in. pipe.  
Wood Wheel, Two Guards.

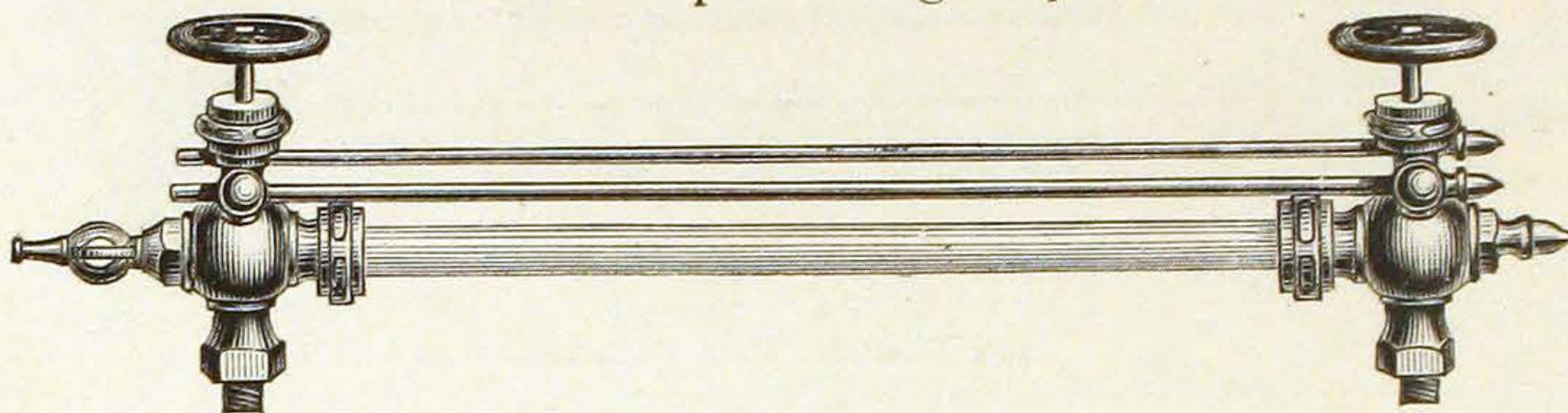


# WATER GAUGES.

No. 8.

**Fig. 142.**

Glass is put through top.



For  $\frac{1}{4}$  in. Pipe.

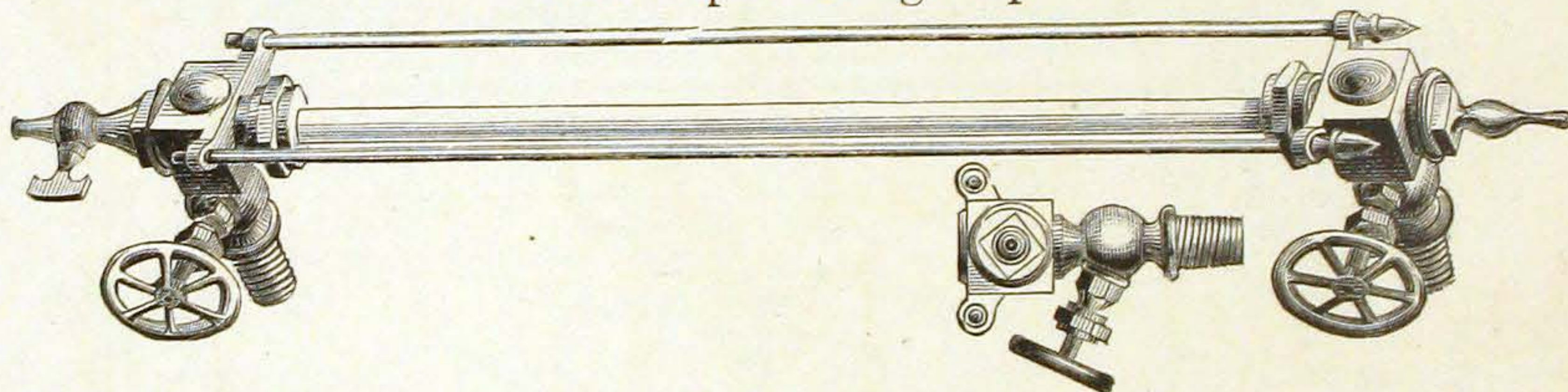
**Iron Wheel, Two Guards.**

BRASS OR WOOD WHEELS TO ORDER.

No. 9.

**Fig. 143.**

Glass is put through top.



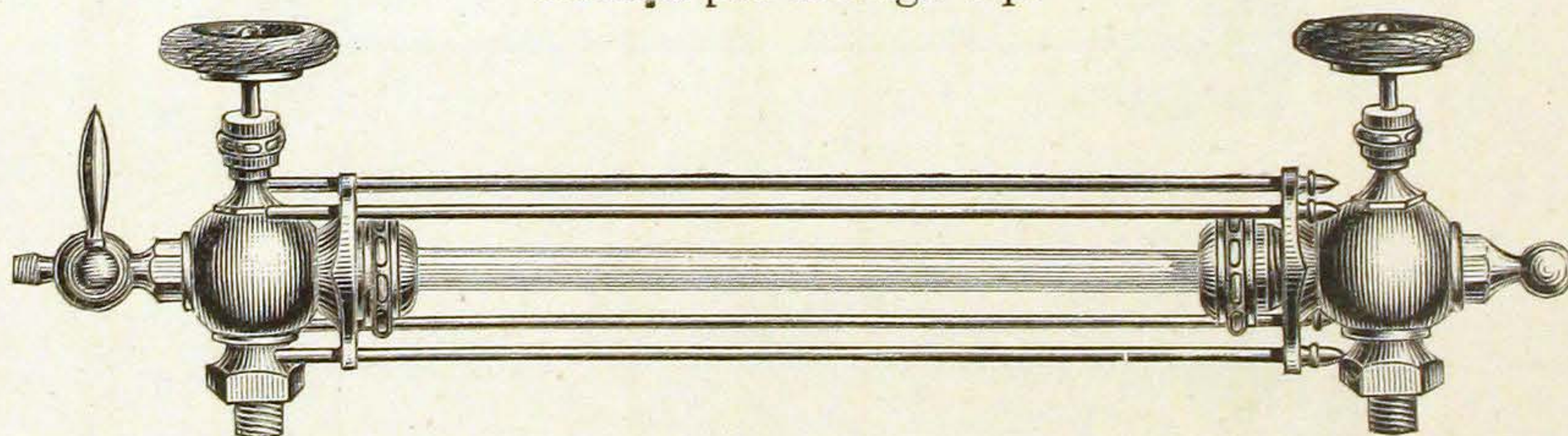
For  $\frac{1}{4}$  in. pipe.

**Iron Wheel, on an Angle, Two Guards.**

No. 10.

**Fig. 144.**

Glass is put through top.



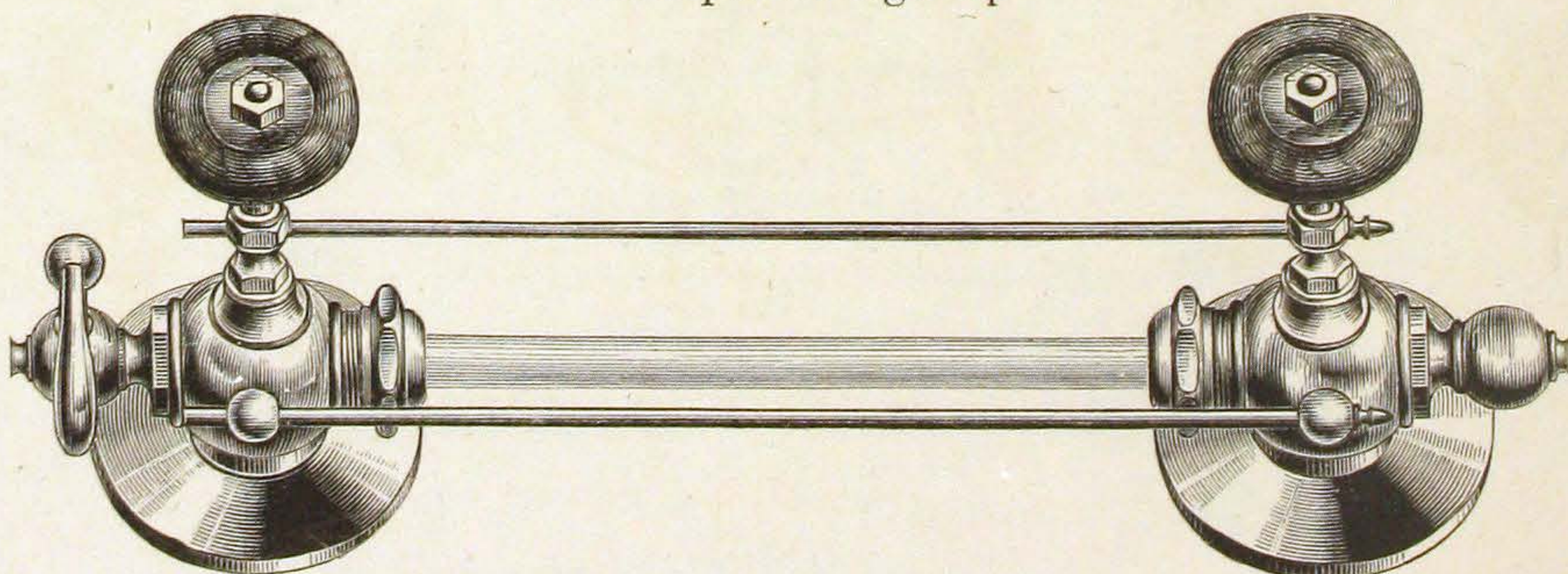
For  $\frac{1}{4}$  in. pipe.

**Wood Wheels, Four Guards.**

No. 11.

**Fig. 145.**

Glass is put through top.



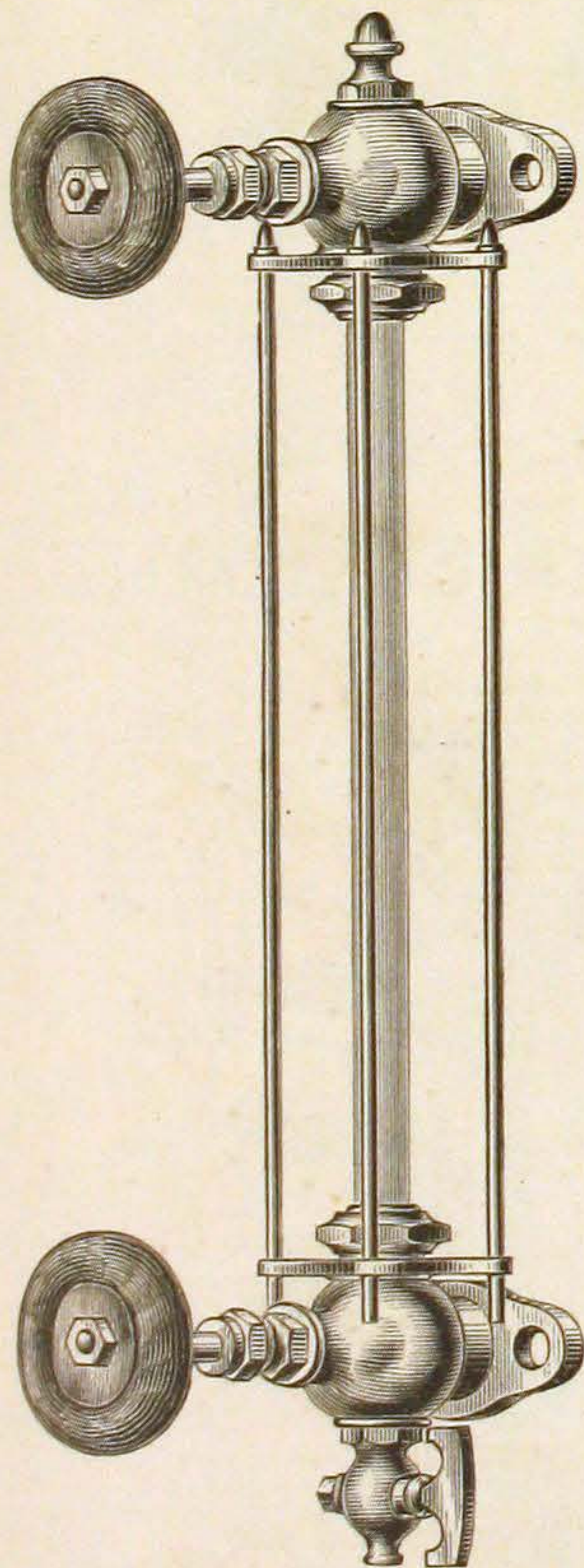
**Wood Wheel, two Guards, with Flanges.**



# WATER GAUGES.

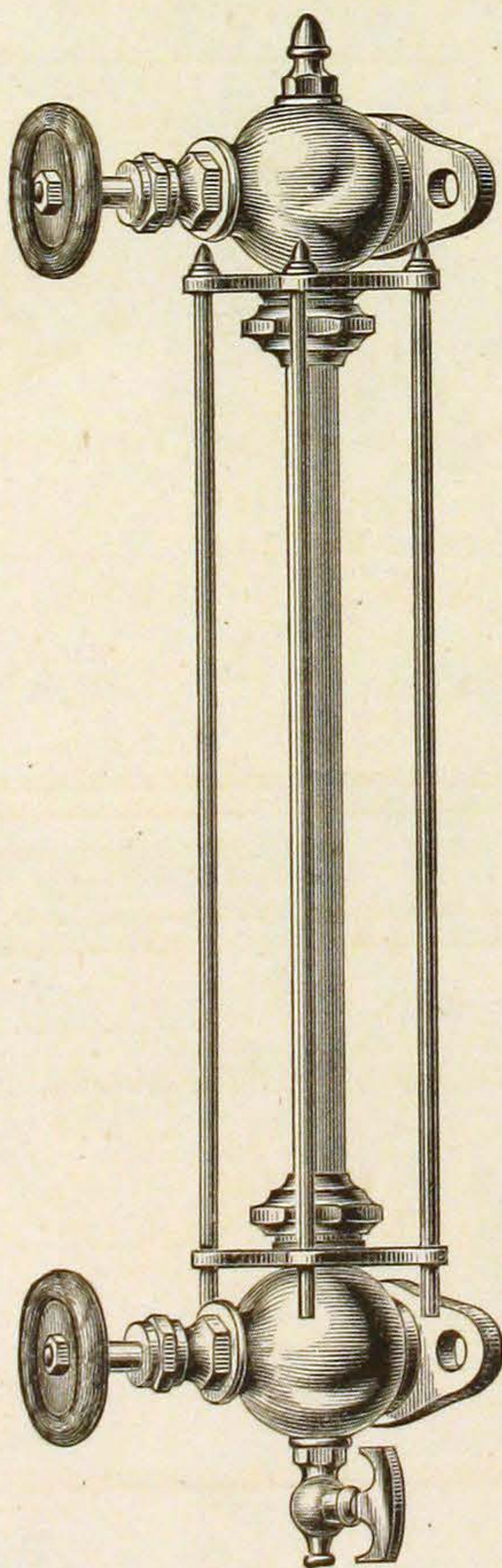
No. 12.

Fig. 146.



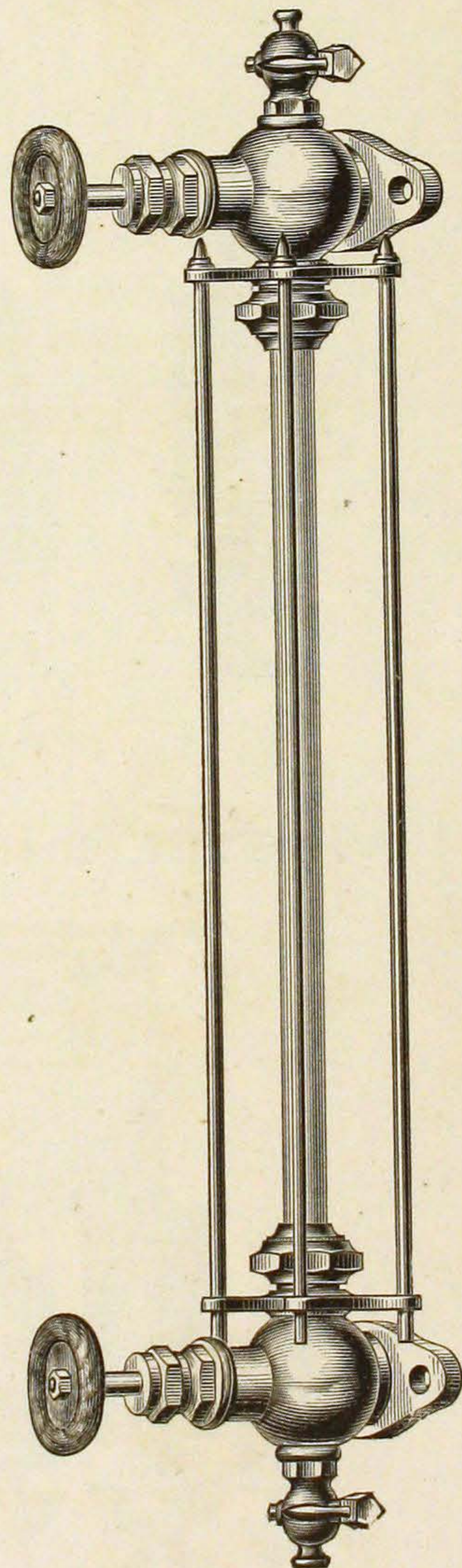
No. 13.

Fig. 147.



No. 14.

Fig. 148.



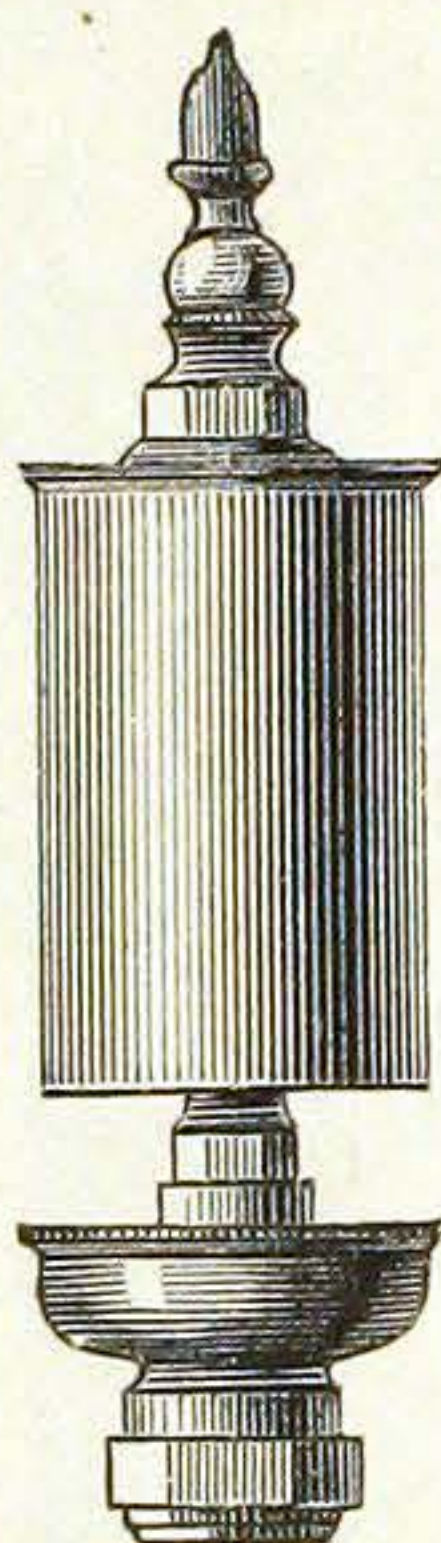
Wood Wheels, Two Guards and with Flanges.

For Steamships, &c.



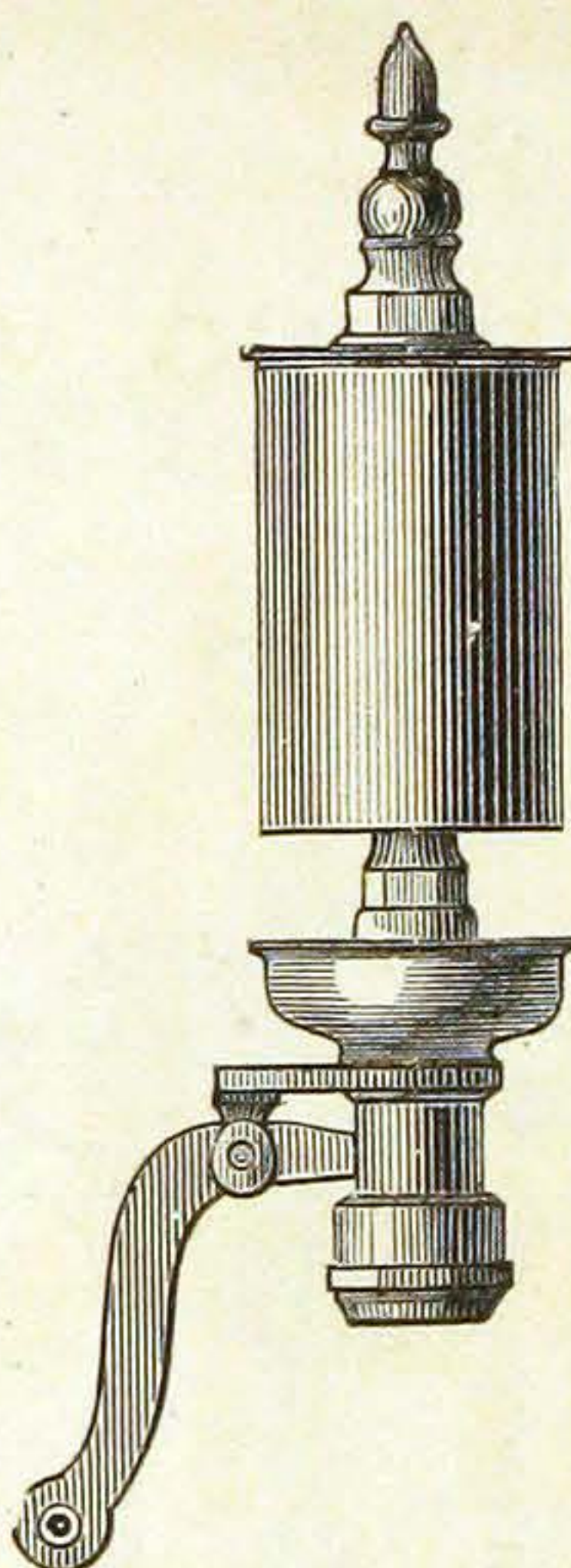
## STEAM WHISTLES AND WATER COLUMN.

Fig. 149.



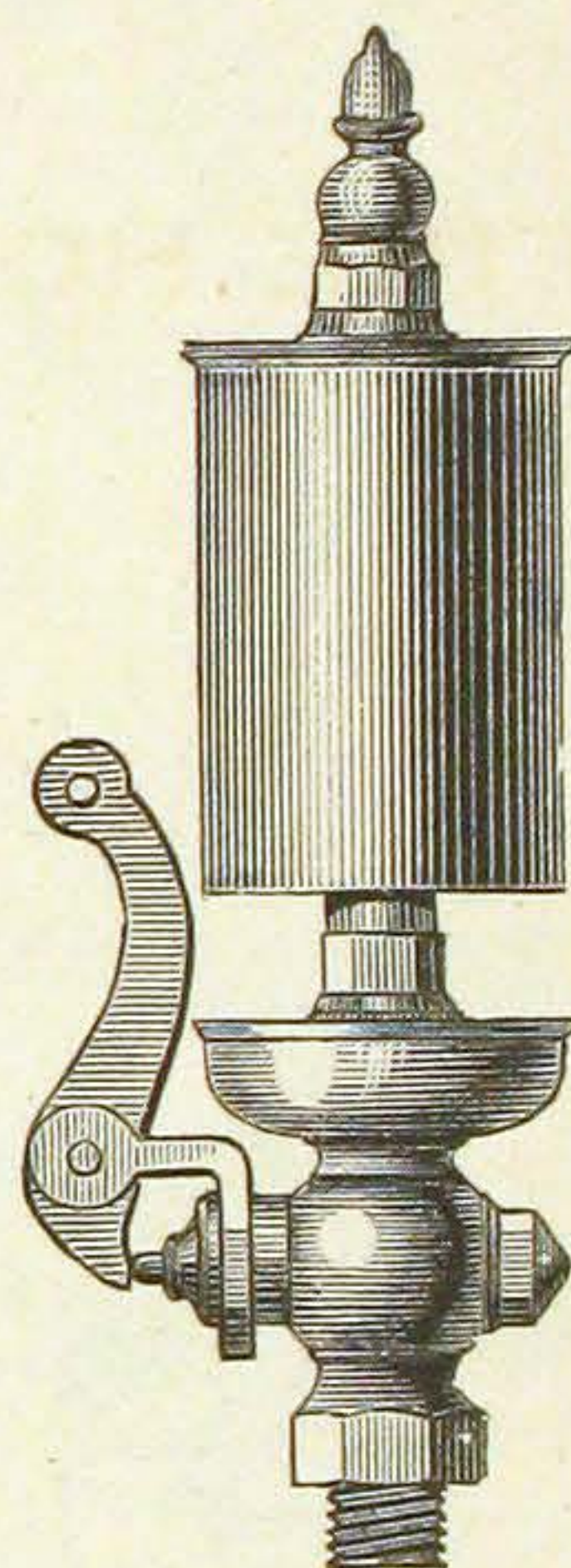
No. 1.

Fig. 150.



No. 2.

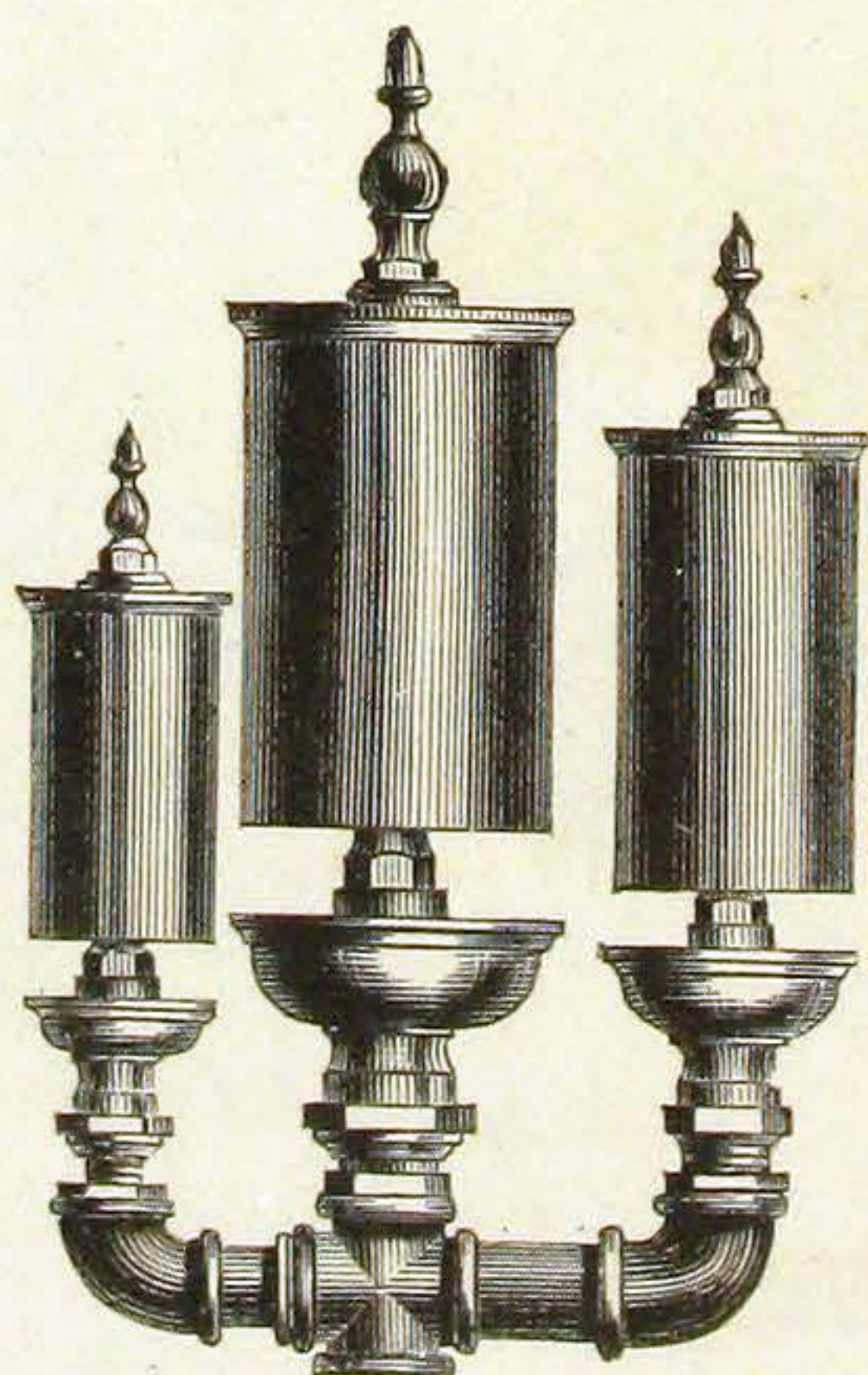
Fig. 151.



No. 3.

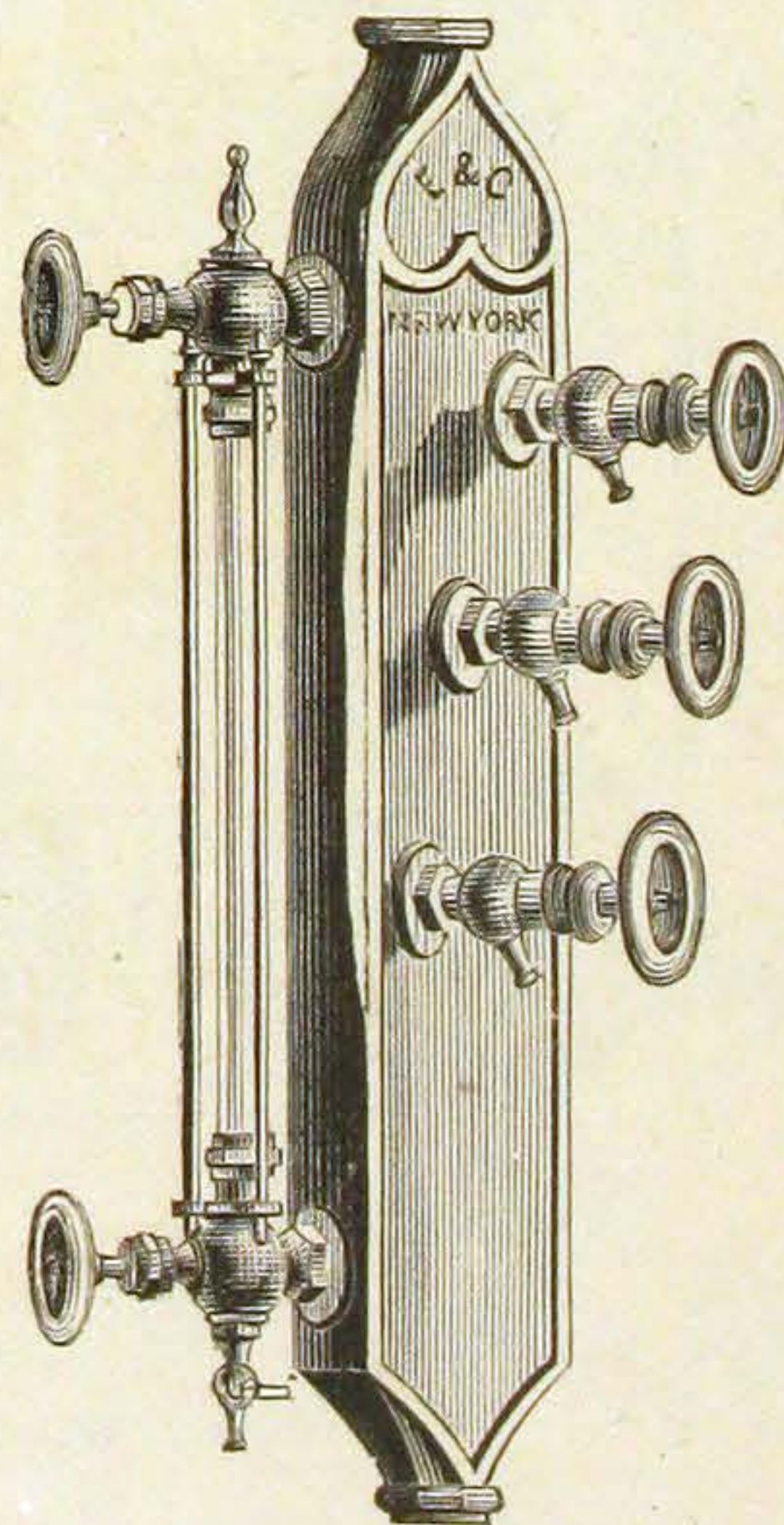
## WHISTLE CHIMES.

Fig. 152.

Three or more Whistles of any  
Size, to order.

## WATER COLUMN.

Fig. 153.



With Steam Gauge, to order.



## HOSE COUPLINGS.

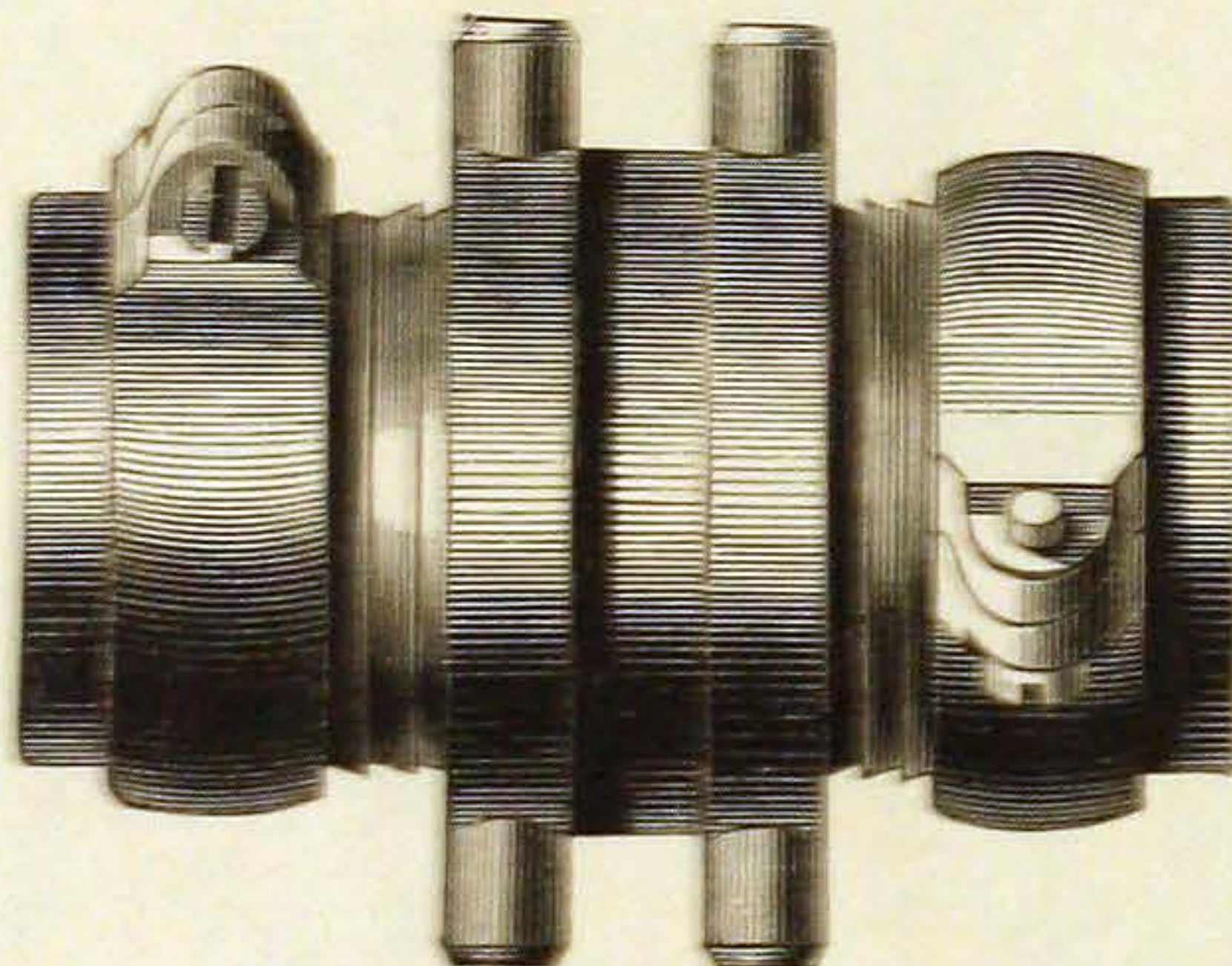
Fig. 154.



Common.

## FIRE HOSE COUPLING, WITH CLAMP.

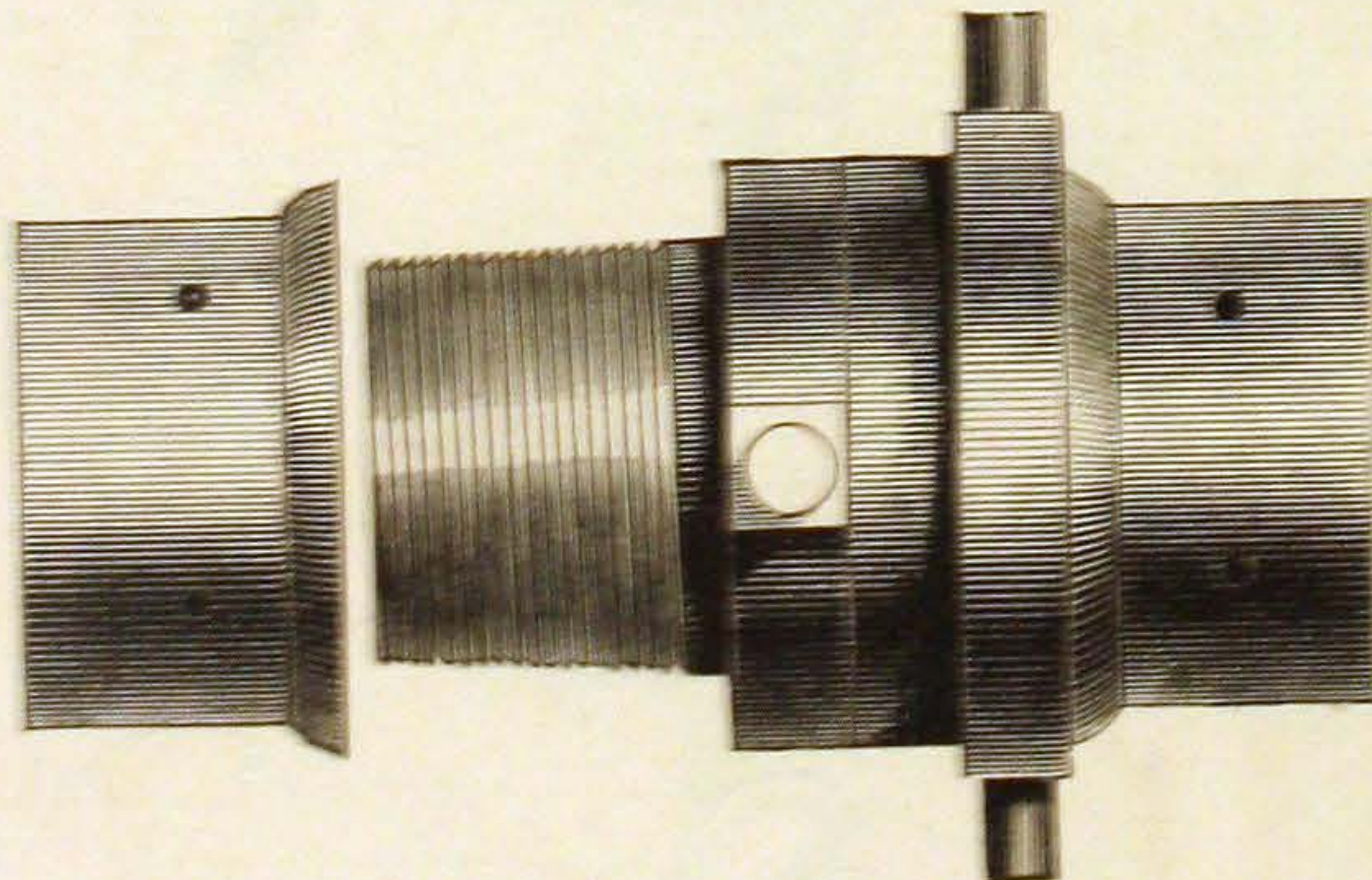
Fig. 155.



For Rubber Hose.

## FIRE HOSE COUPLING, WITH BAND.

Fig. 156.



For Leather or Linen Hose.

## WROUGHT IRON SPANNER.

Fig. 157.



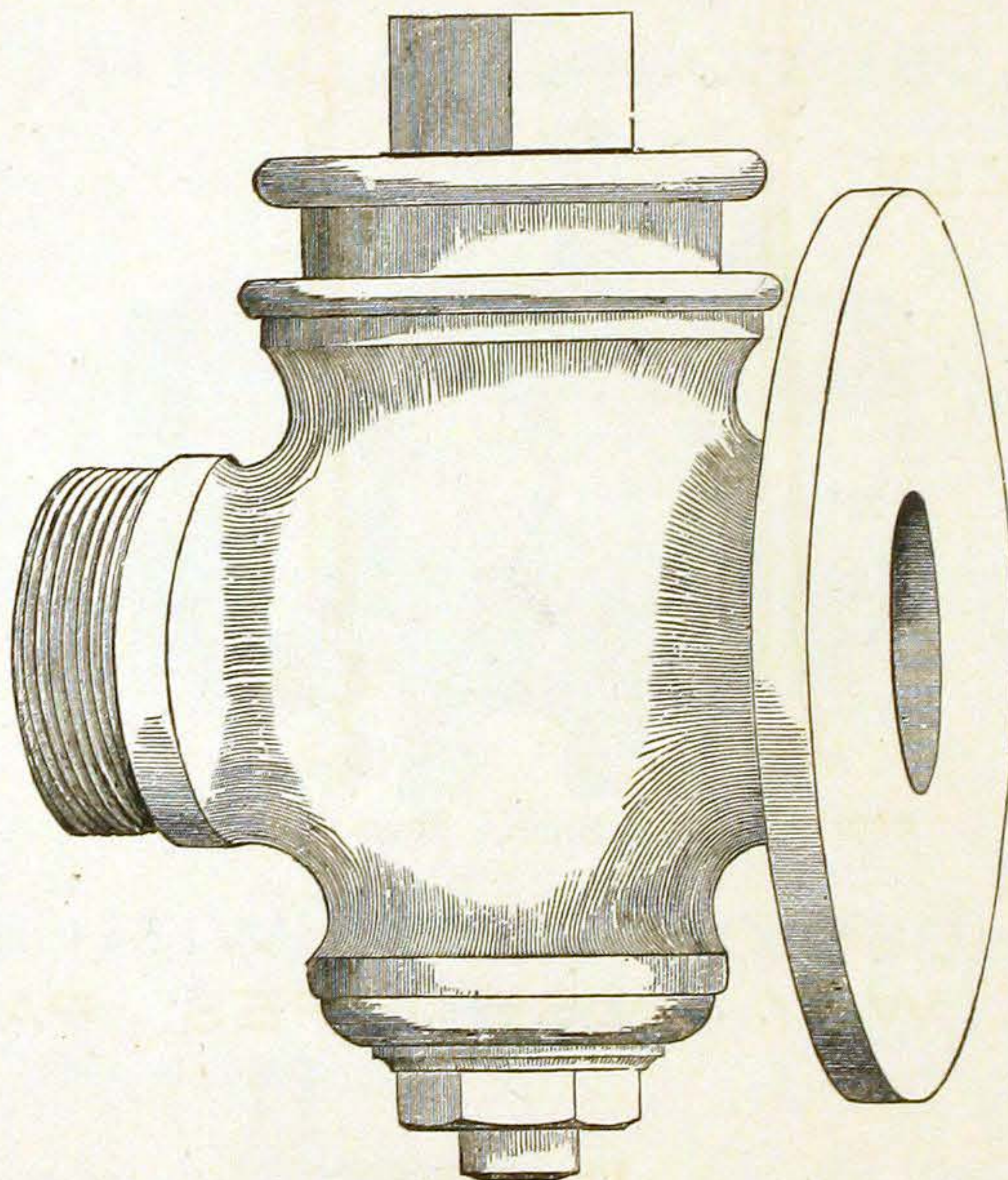
Plain or Galvanized.



## HOSE CAP AND COCK.

## HOSE COCK.

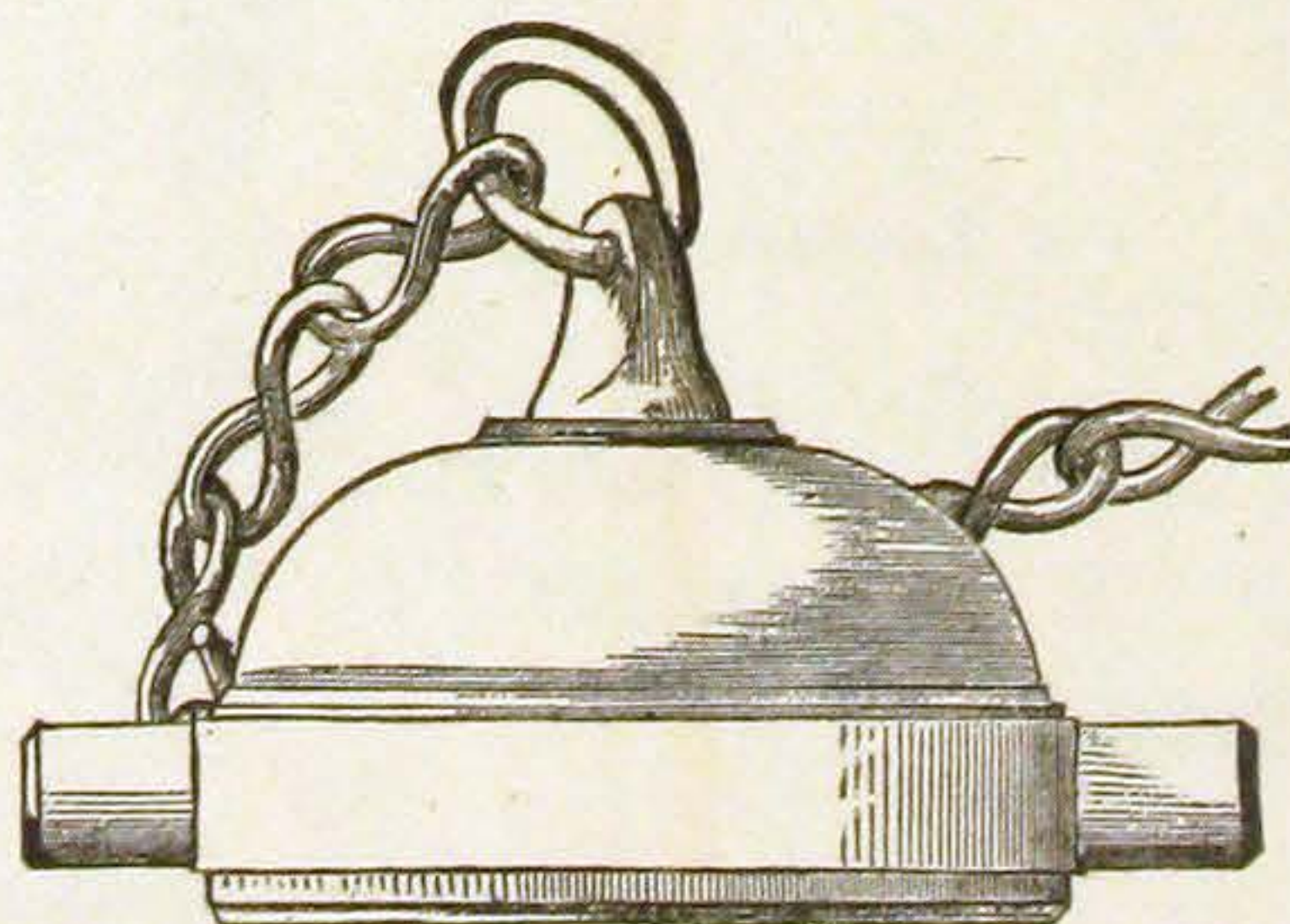
Fig. 158.



Flange on one end, and Hose Thread on the other.

## HOSE CAP.

Fig. 159.



For all Sizes of Hose Thread.



# HOSE PIPES.

Plain.

With Cock.

Compression.

Fig. 161.

Fig. 162.

Fig. 163.

## HOSE NOZZLE.

Fig. 160.



To Tie On.



Short or Long.



Short or Long.



Patent.

## THREE WAY HOSE PIPES. PATENT.

Fig. 164.



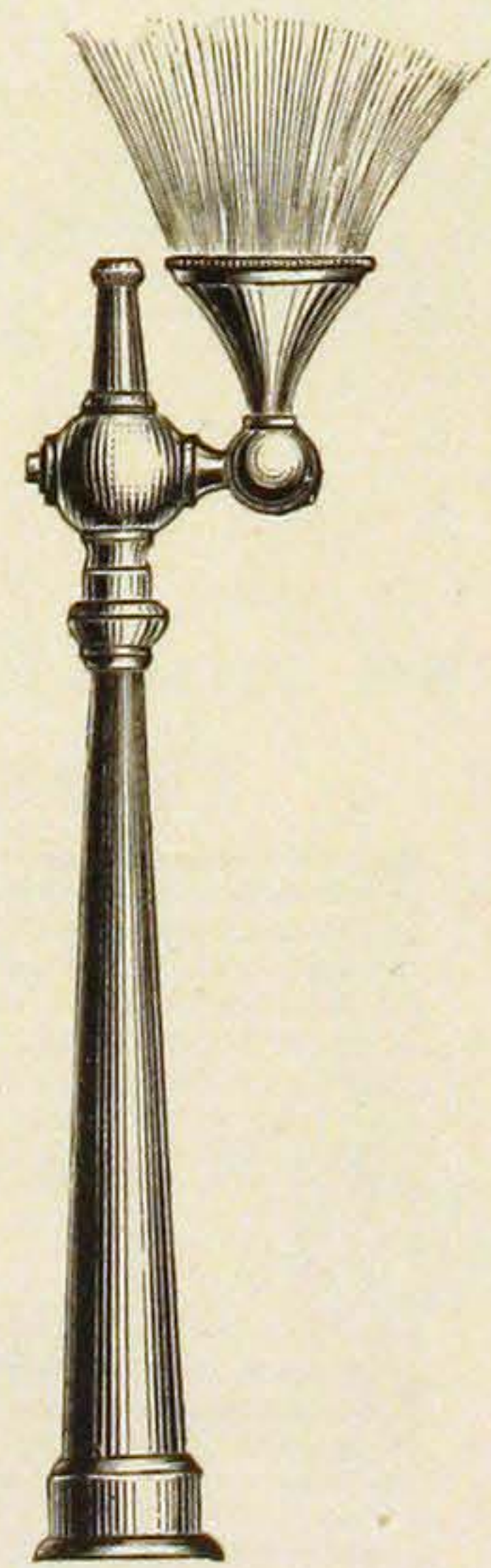
Closed.

Fig. 165.



Full Stream.

Fig. 166.



Spray.



## HOSE PIPES, CLAMPS, &amp;c.

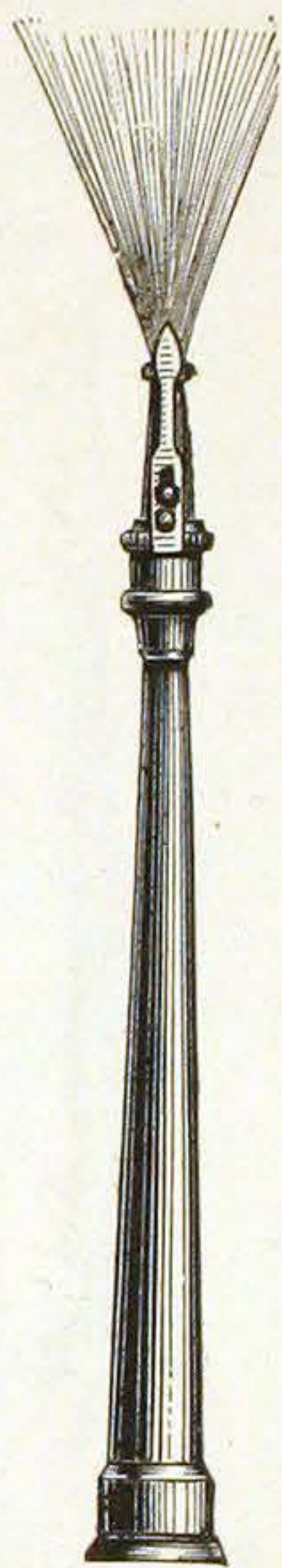
Slide Hose Pipes, Patent.

Fig. 167.



Full Stream.

Fig. 168.



Spray.

Rubber Hose Pipe.

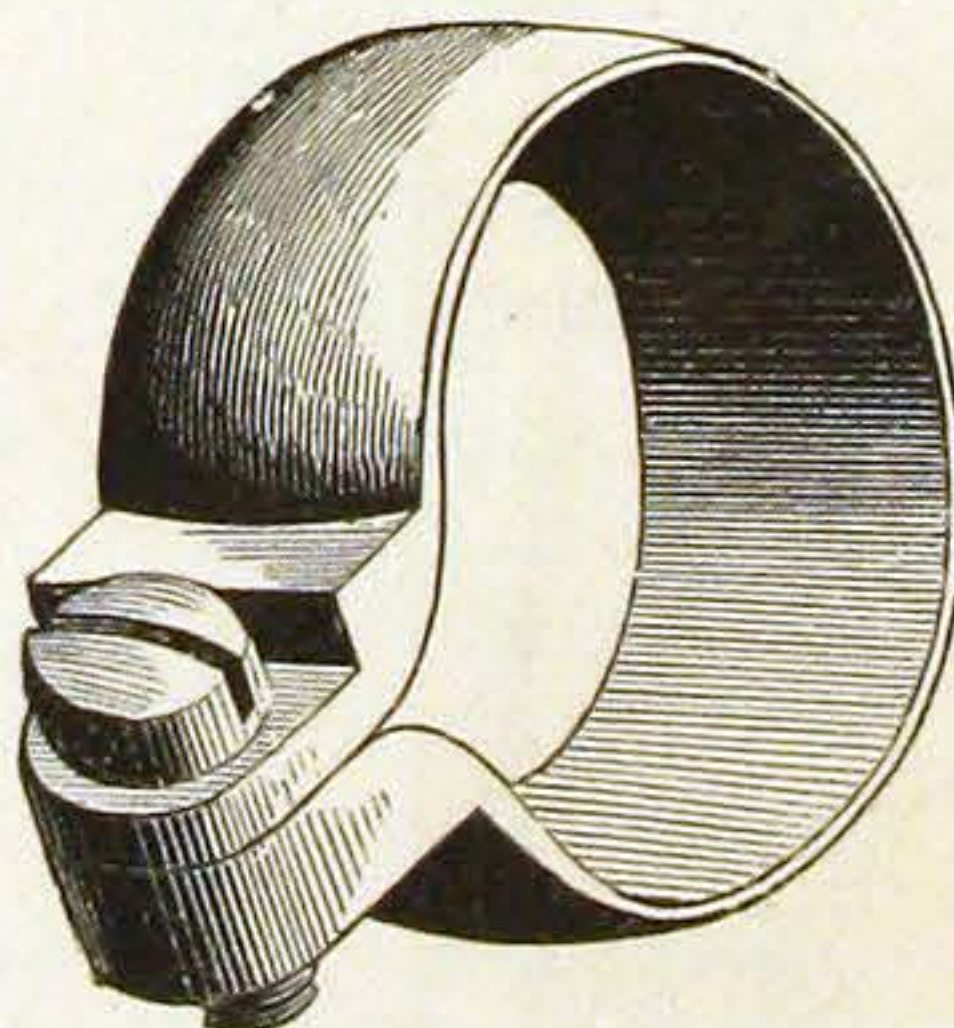
Fig. 169.



Patent.

Clamp to Fasten Hose on Coupling.

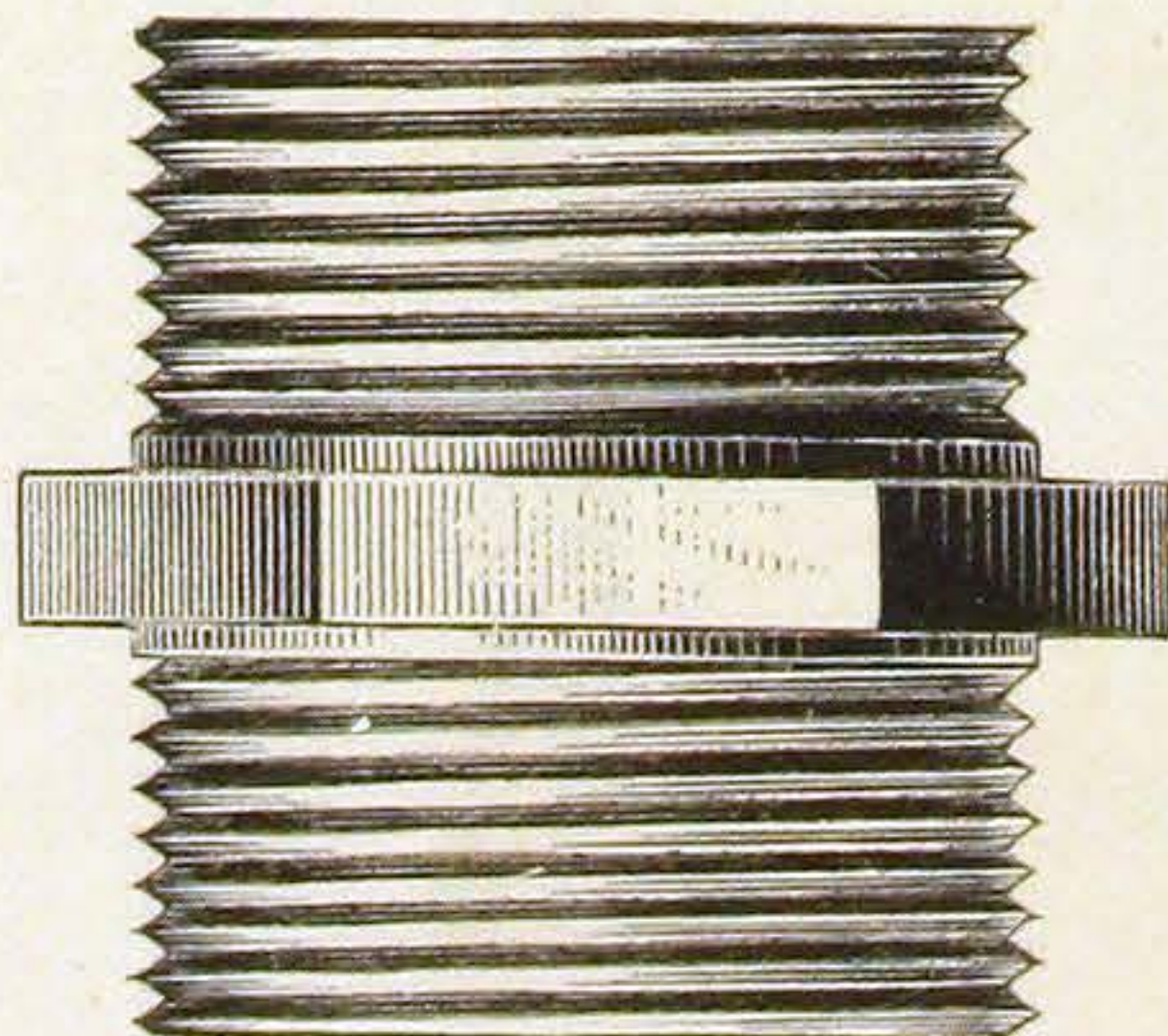
Fig. 170.



For 3-4 Hose and Larger.

Hose and Pipe Nipple.

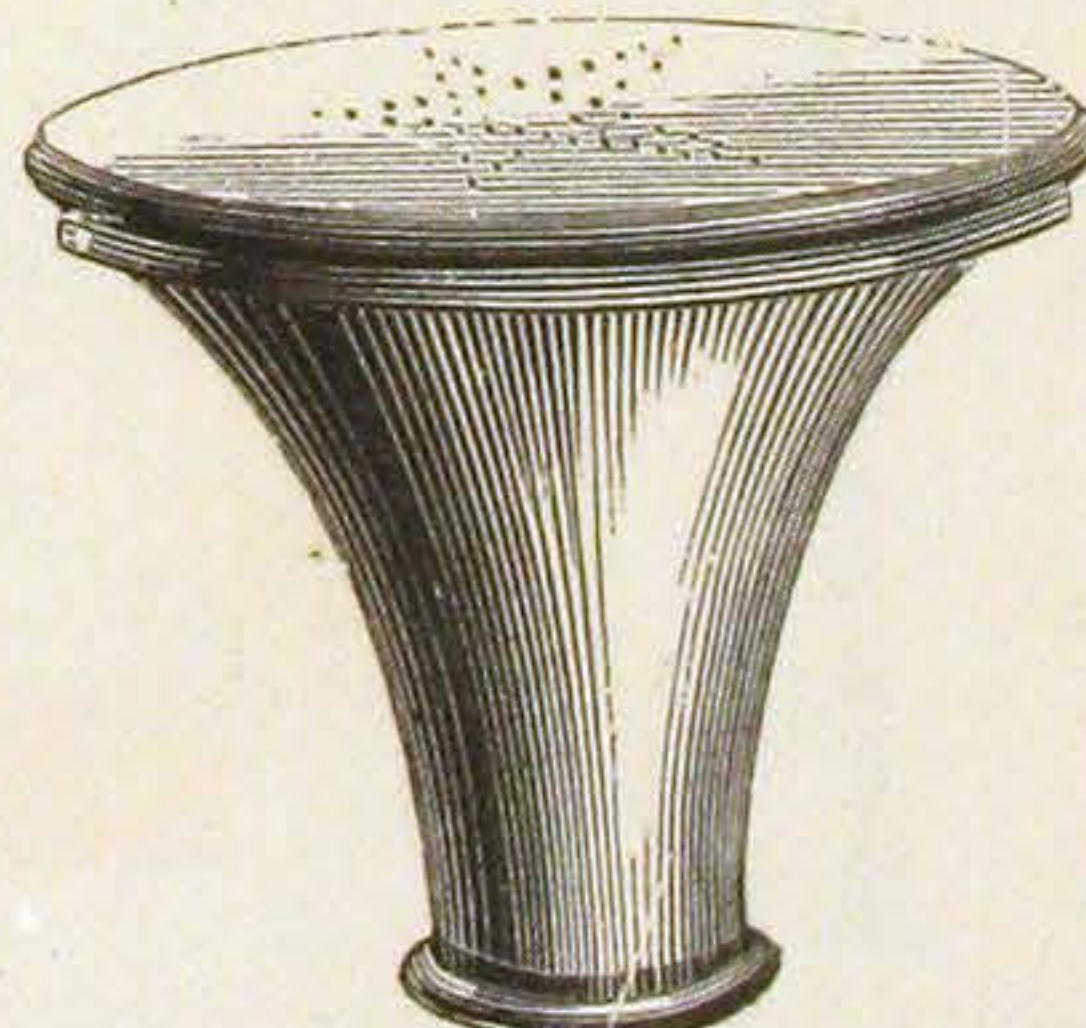
Fig. 171.



To Connect Hose to Pipe Thread.

Sprinklers.

Fig. 172.



1 1-2 and 2 Inch Diameter.



PLAIN OIL CUPS.

FULL SIZES.

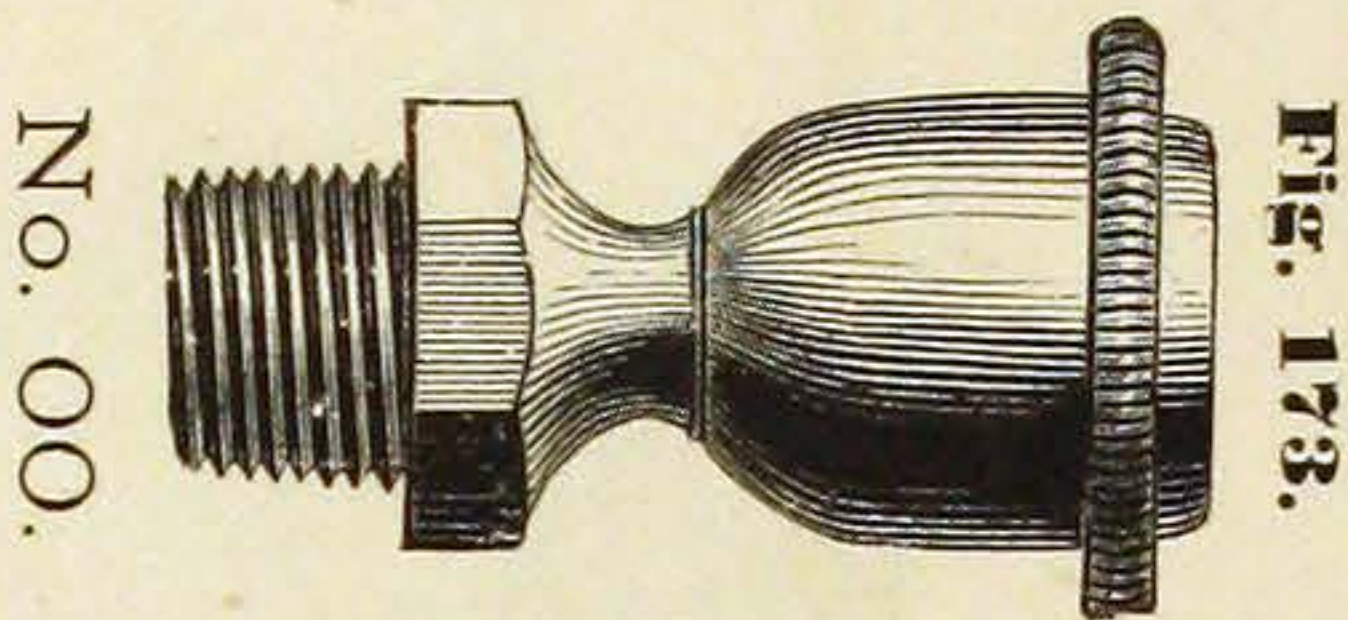
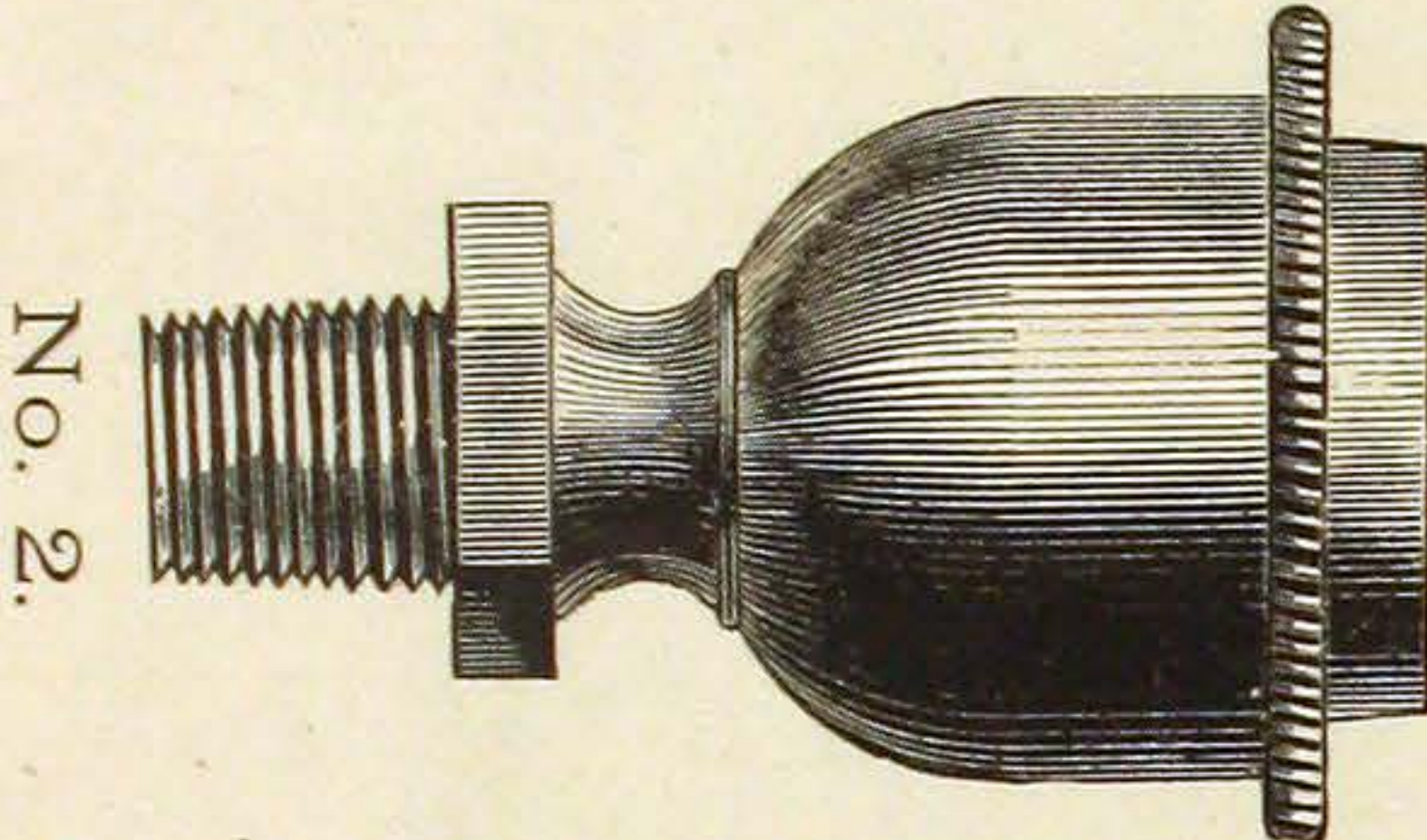


Fig. 173.



No. 2.

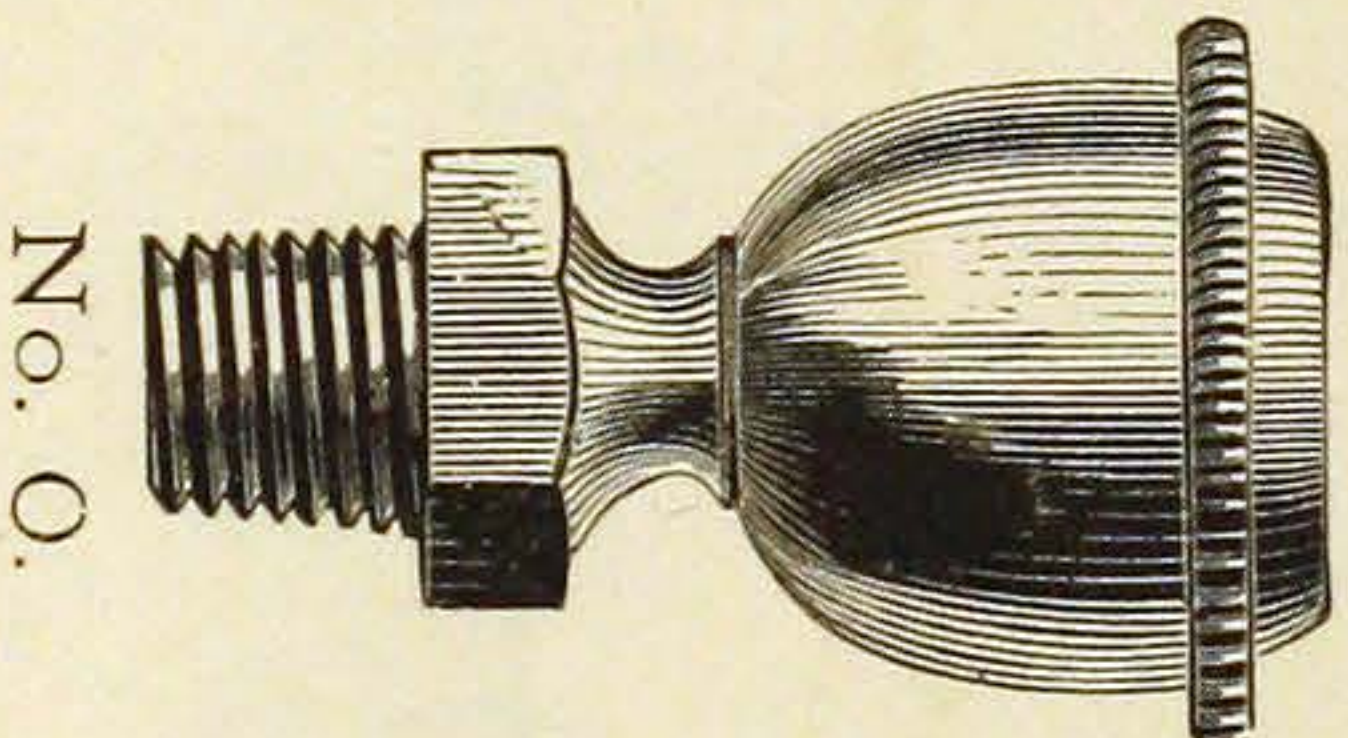
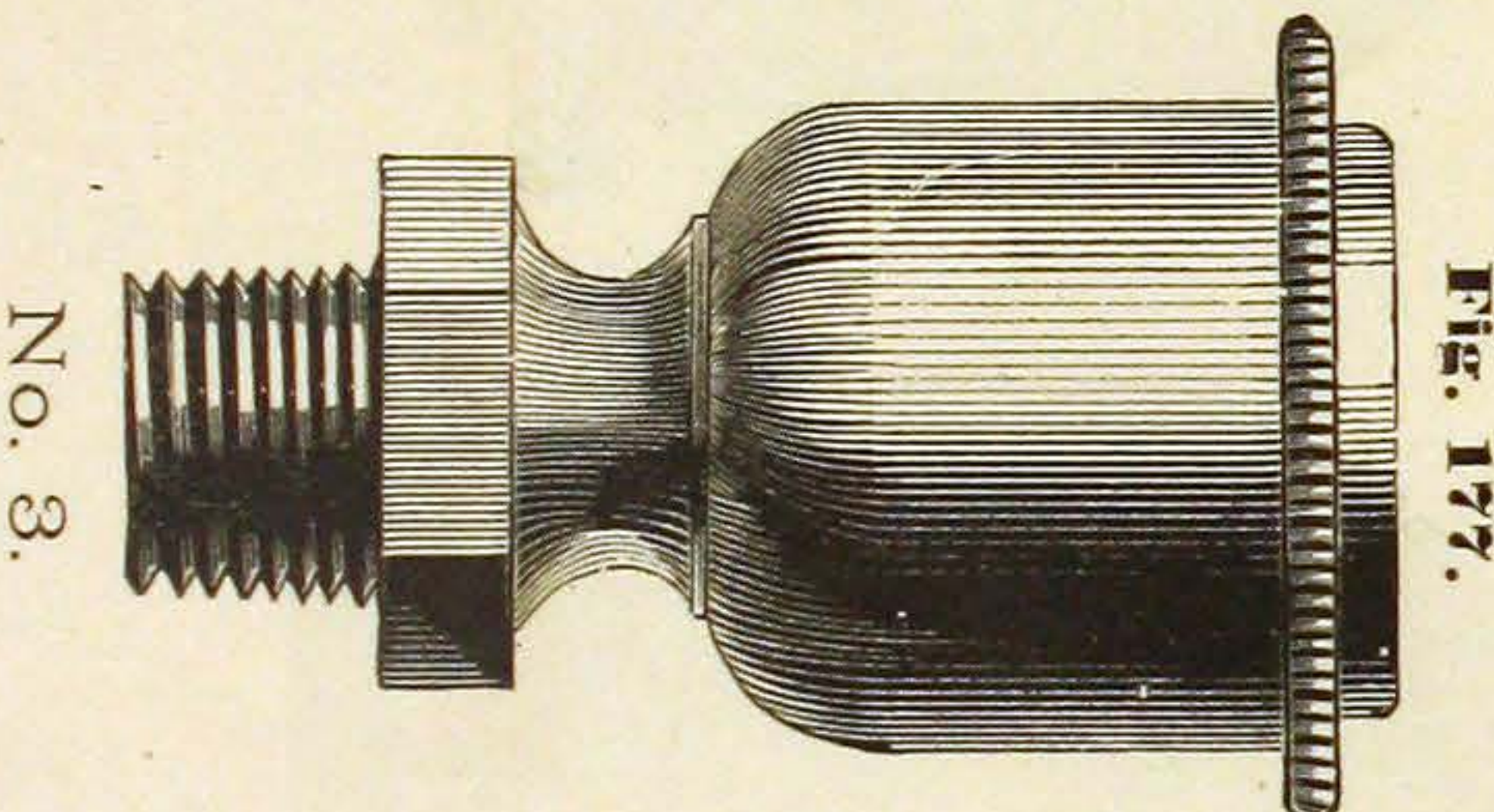


Fig. 174.



No. 3.

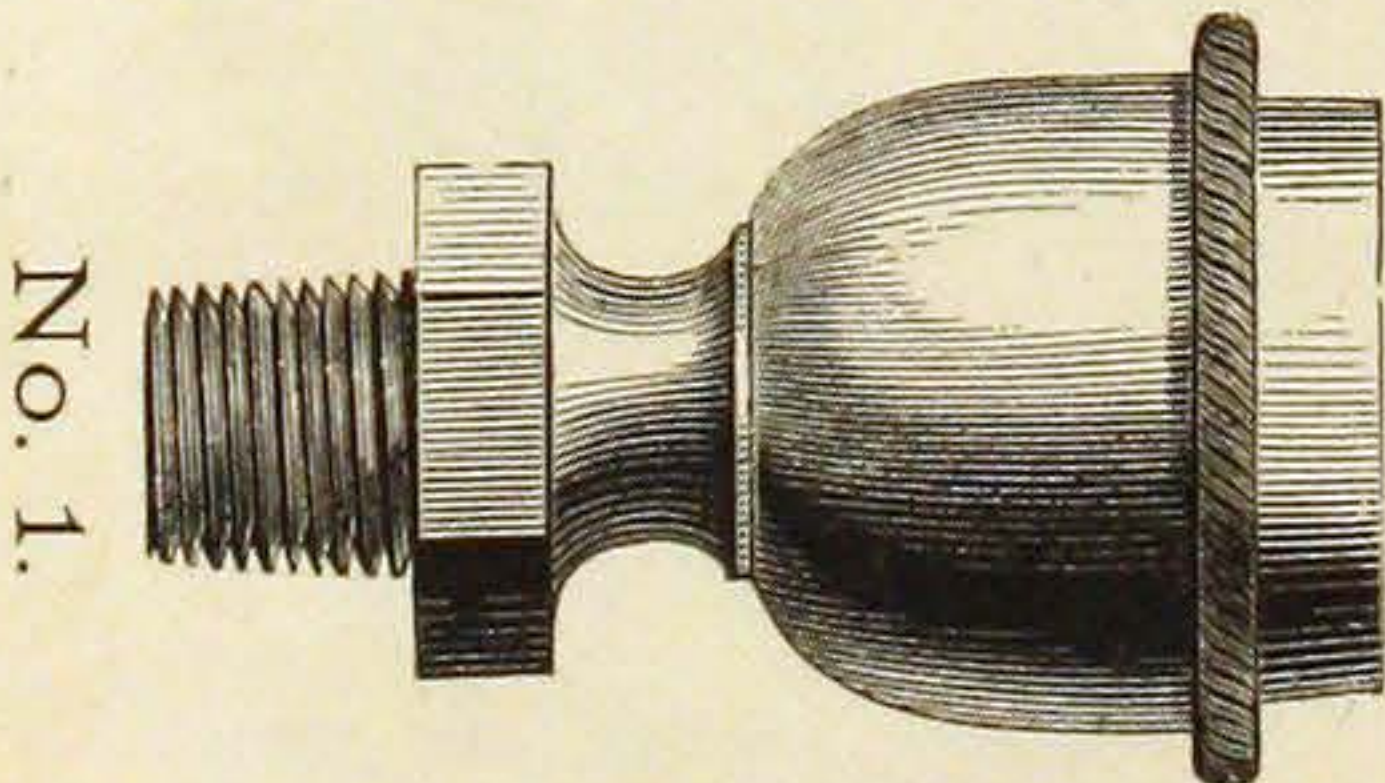
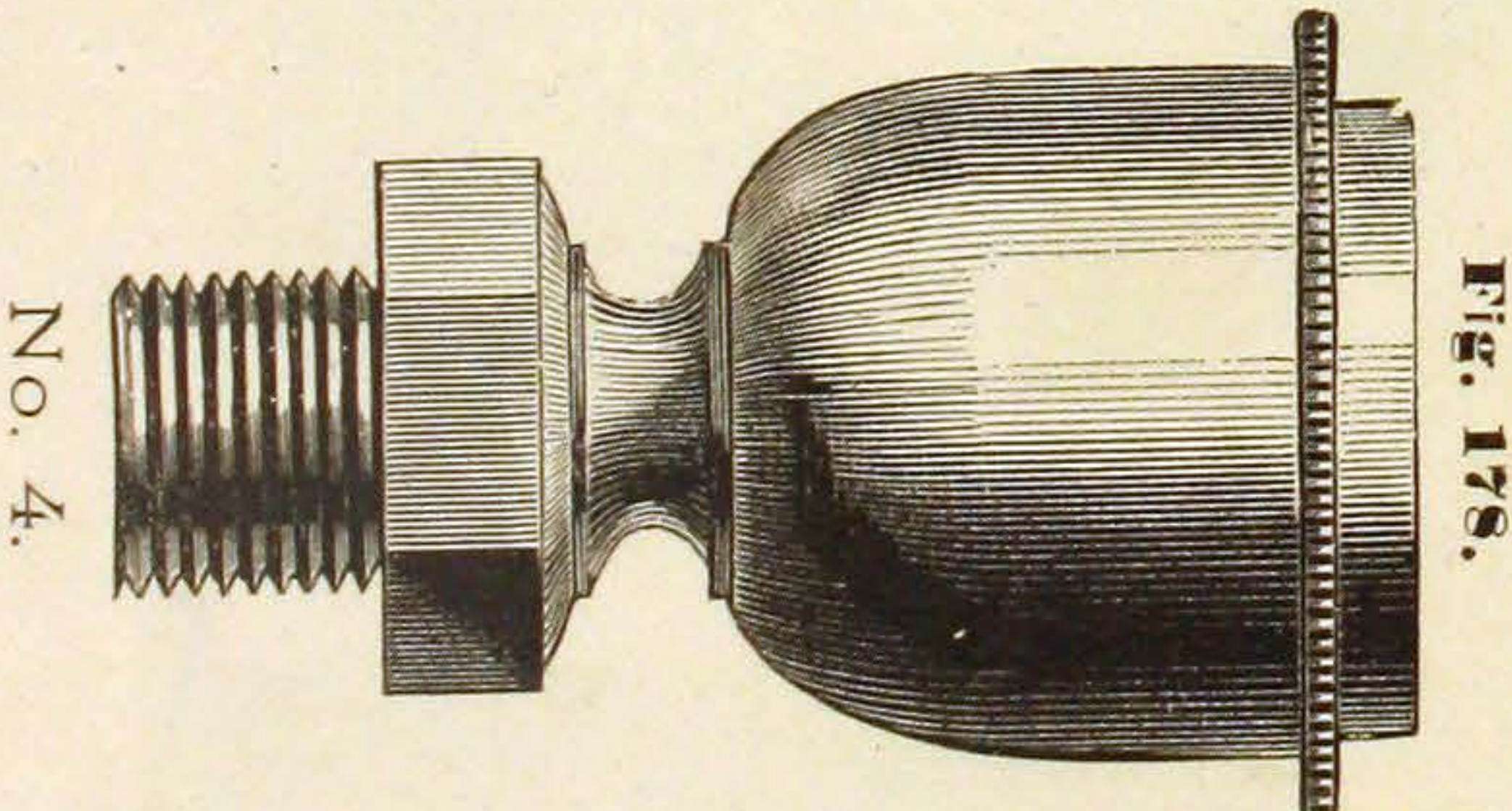
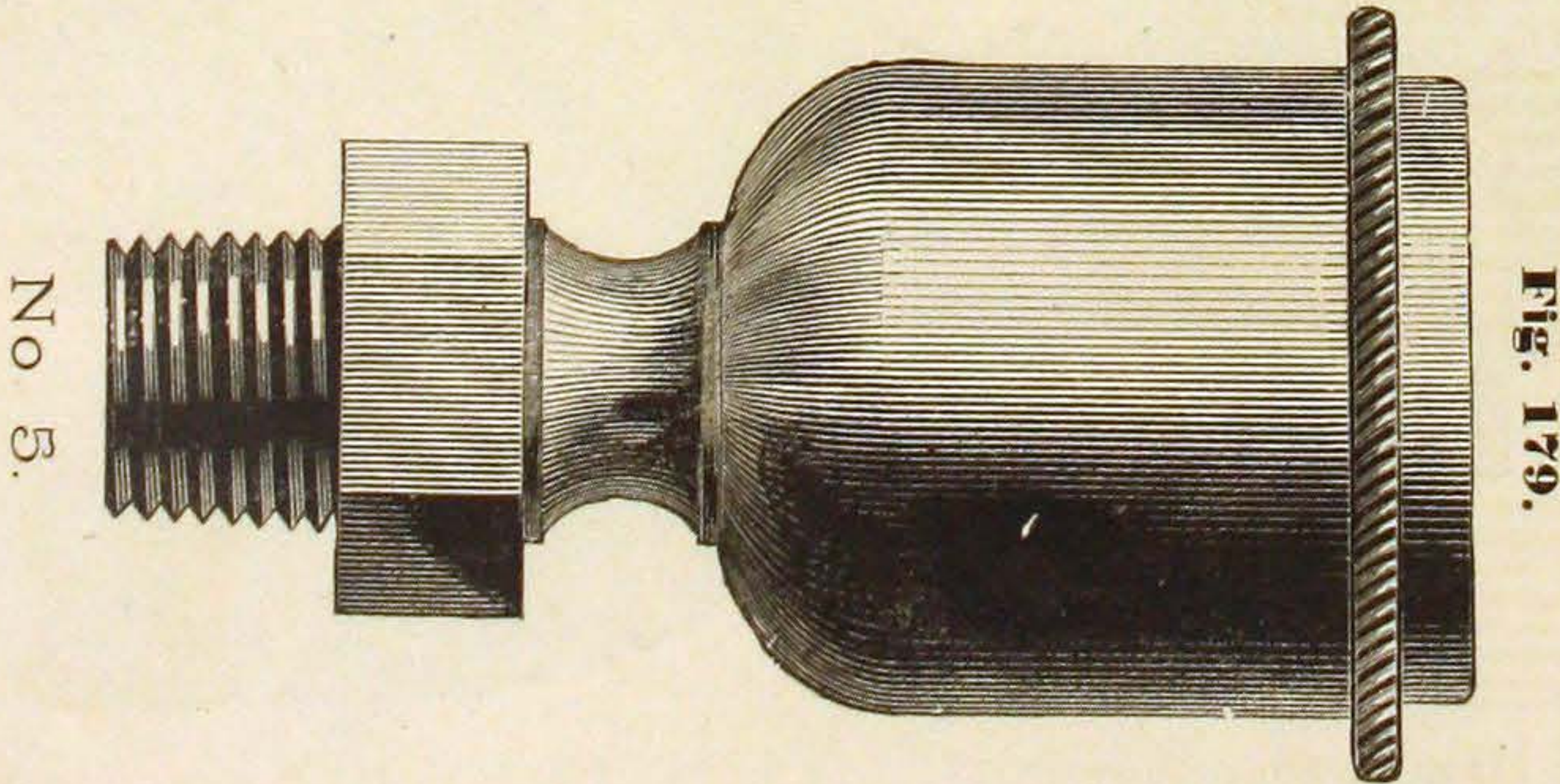


Fig. 175.



No. 4.

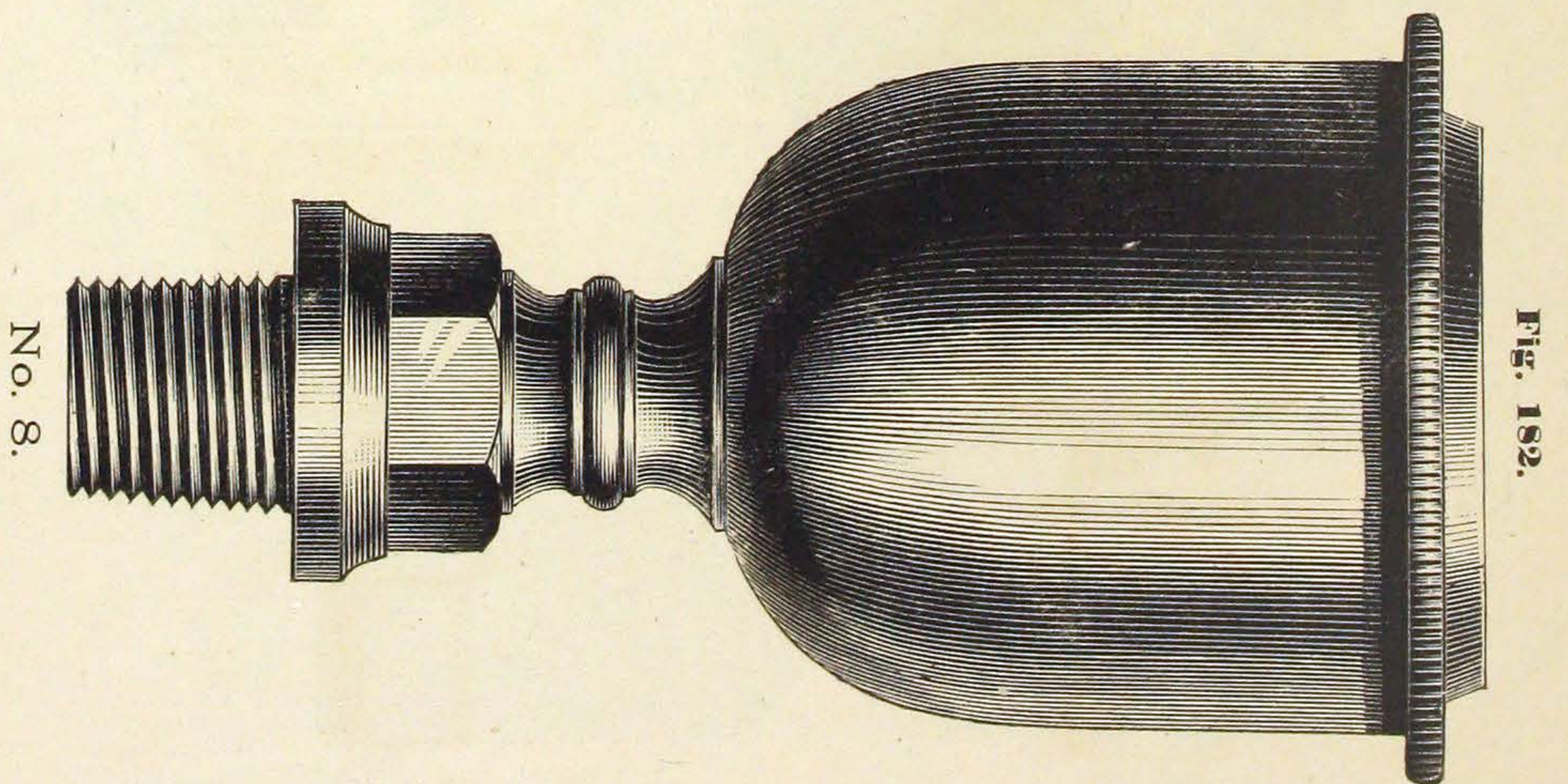
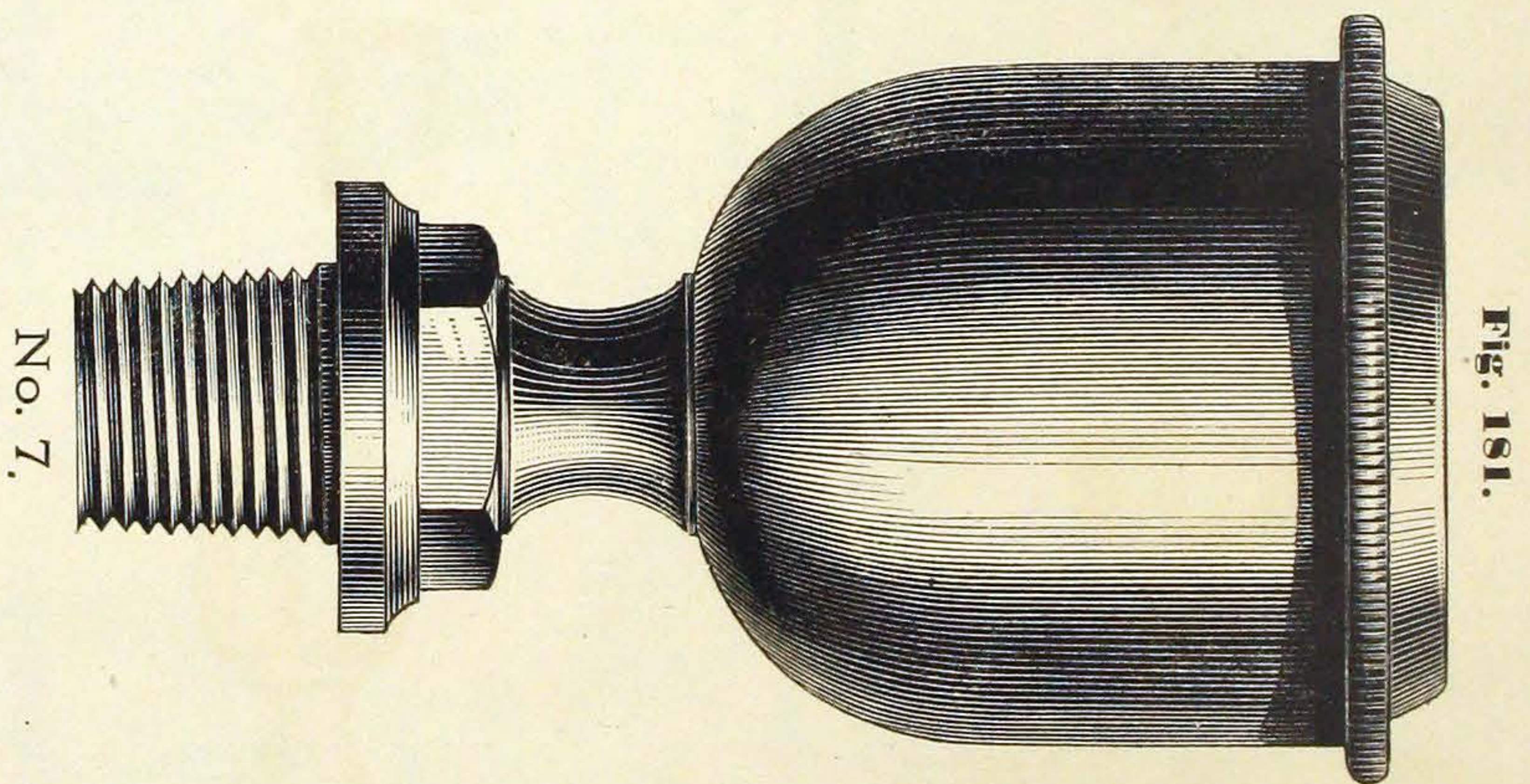
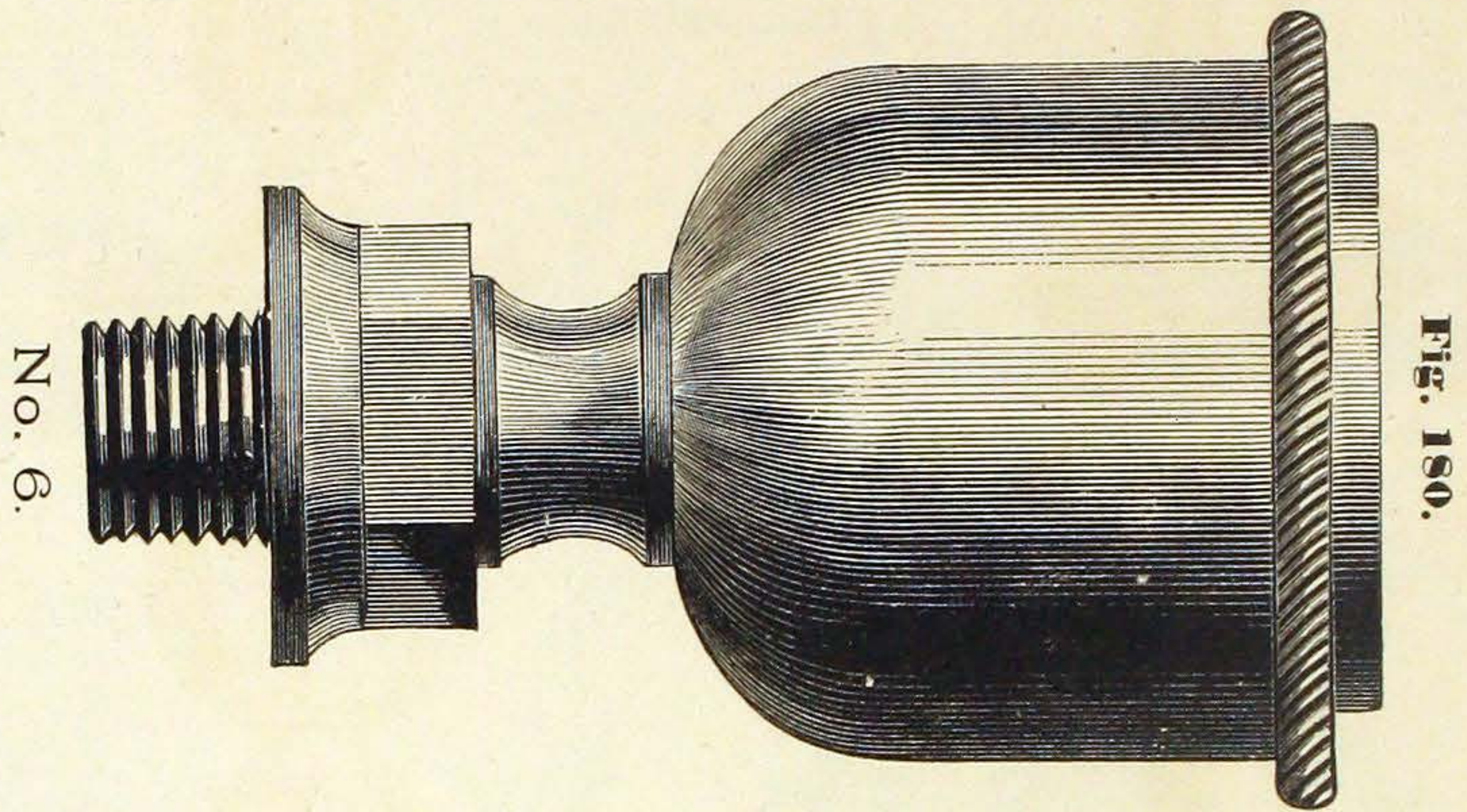


No. 5.



## PLAIN OIL CUPS.

FULL SIZES.



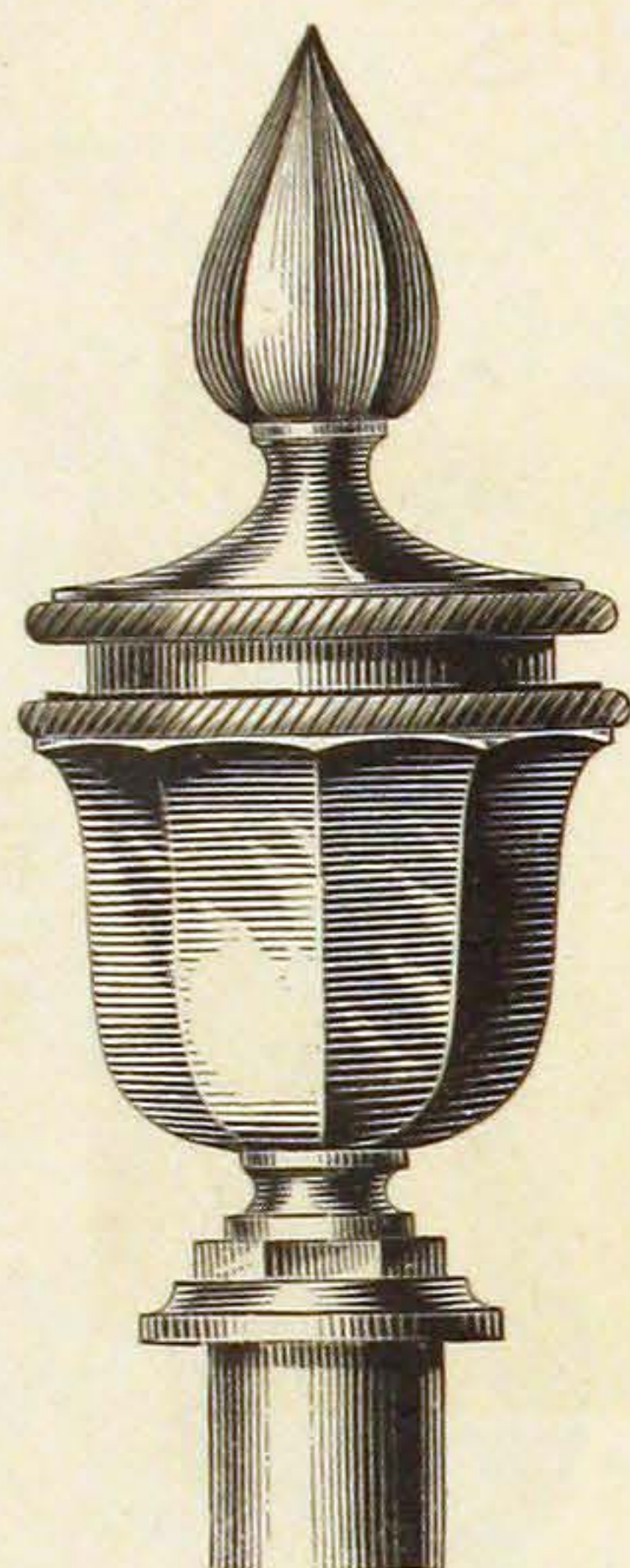


## FANCY TOP OIL CUPS.

Fig. 183.

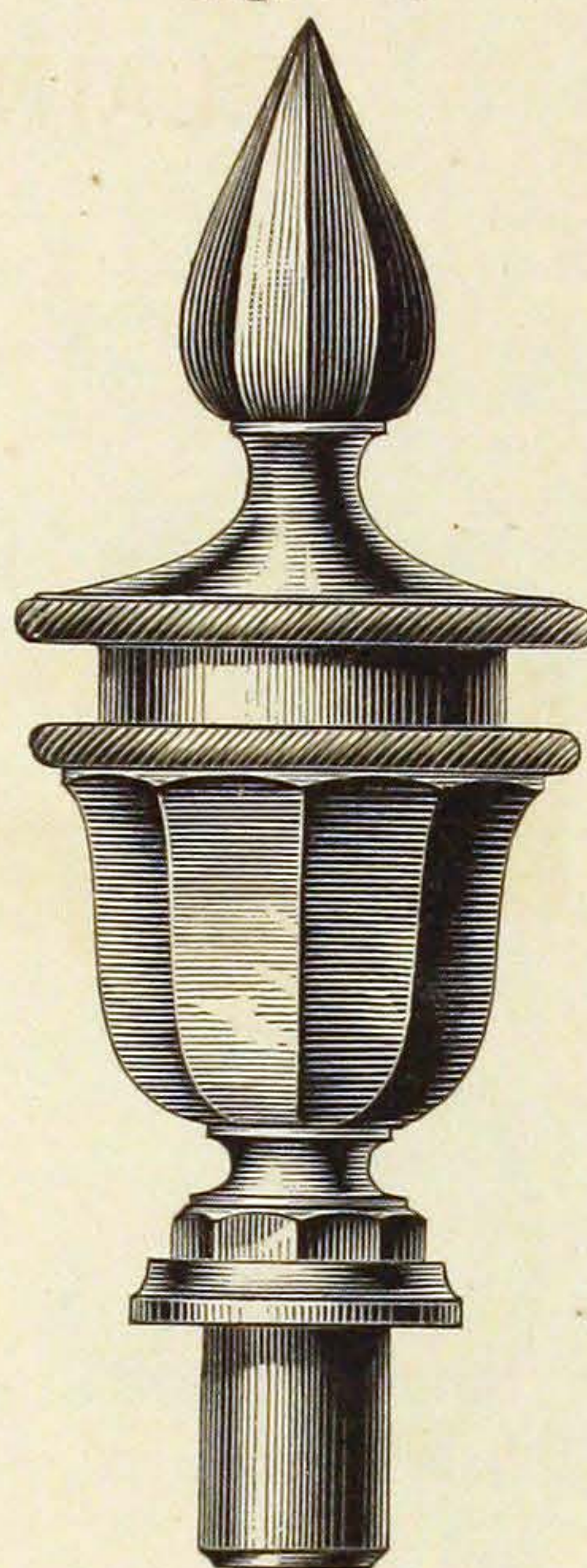
FULL SIZES.

Fig. 184.



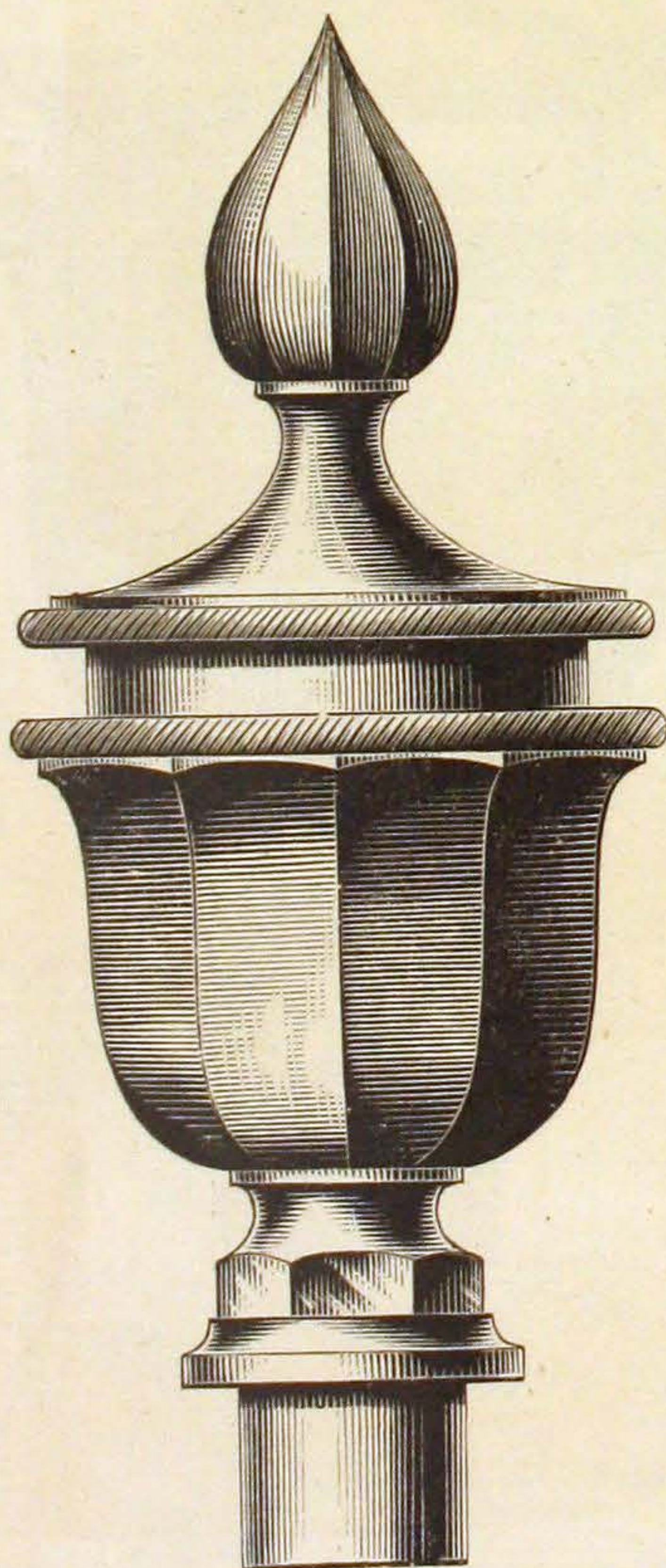
No. 1.

Fig. 186.

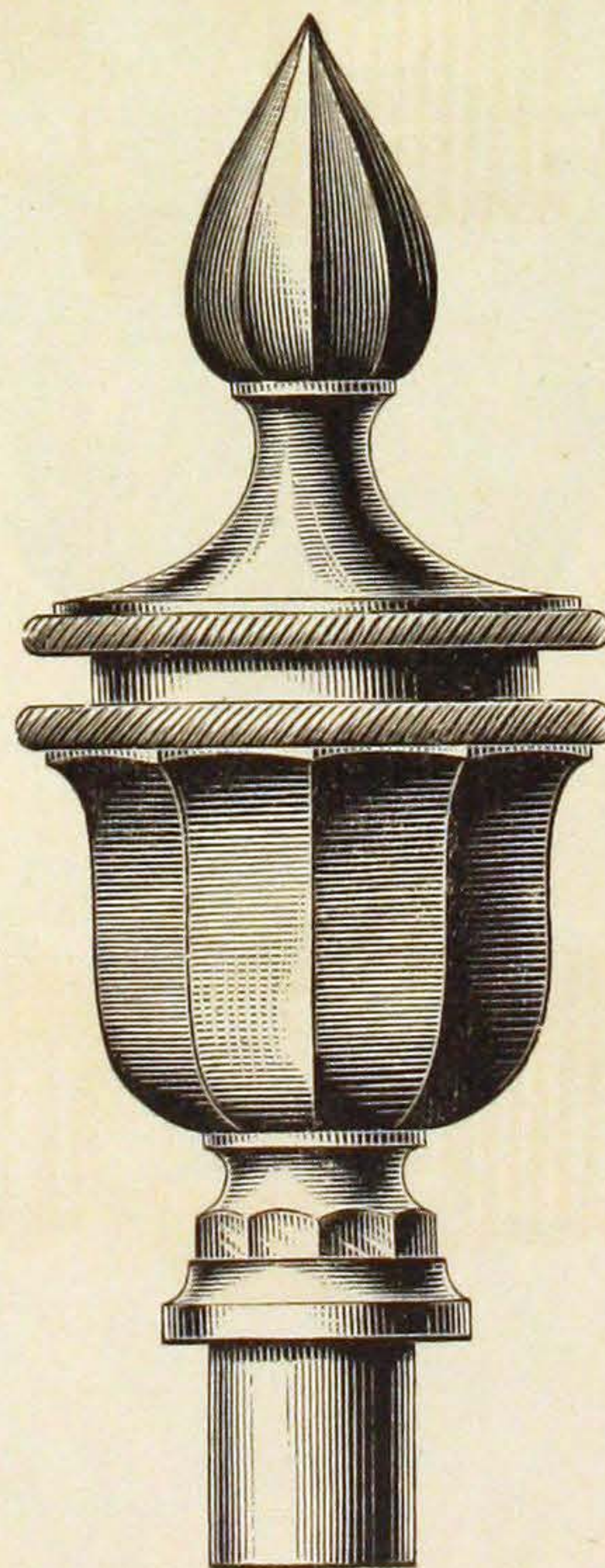


No. 2.

Fig. 185.



No. 4.



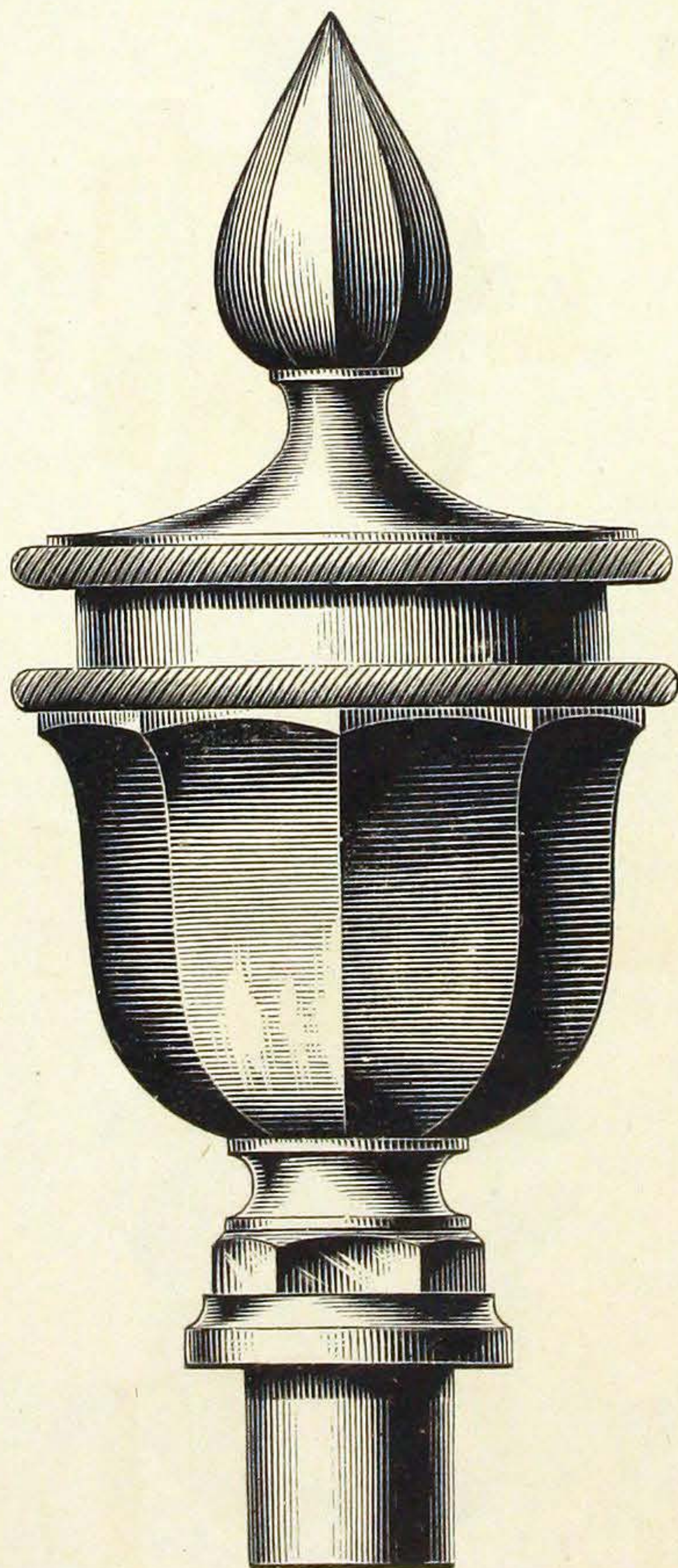
No. 3.



## FANCY TOP OIL CUPS.

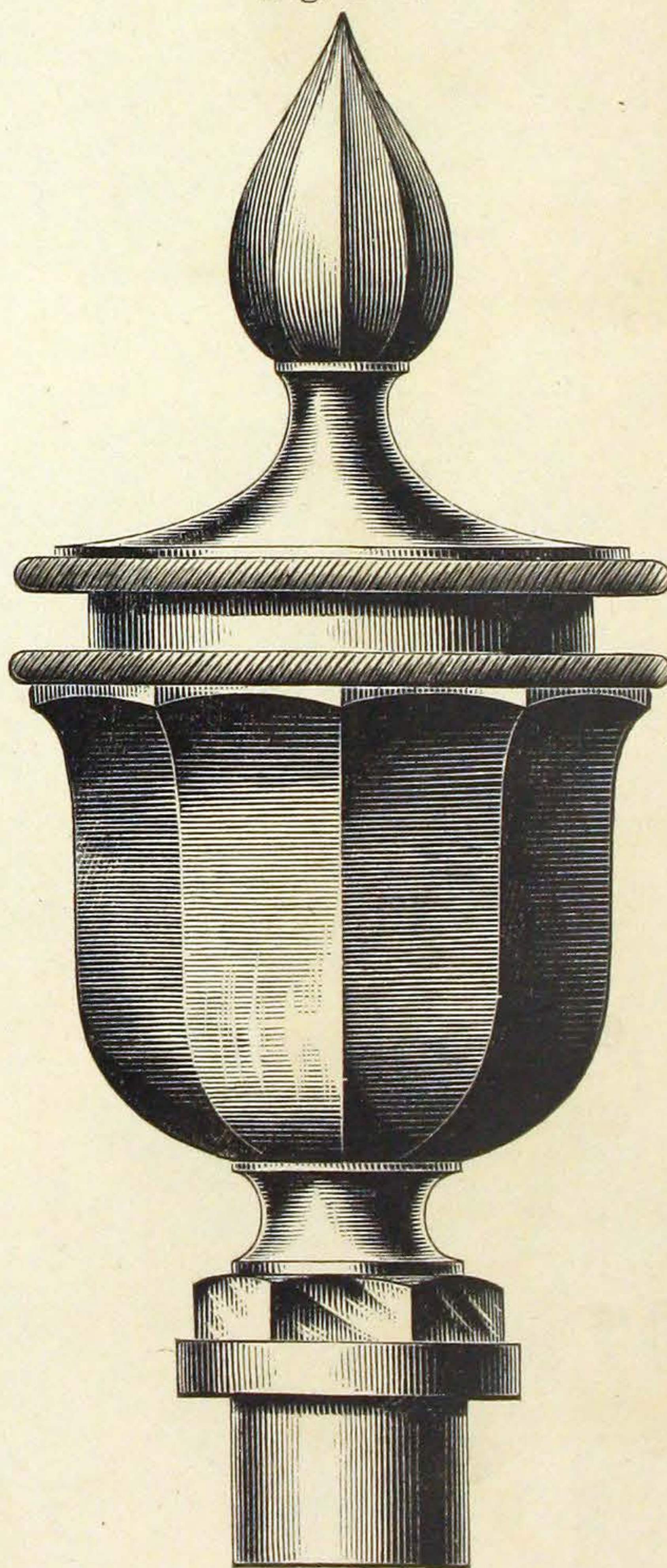
FULL SIZES.

Fig. 187.



No. 5.

Fig. 188.



No. 6.

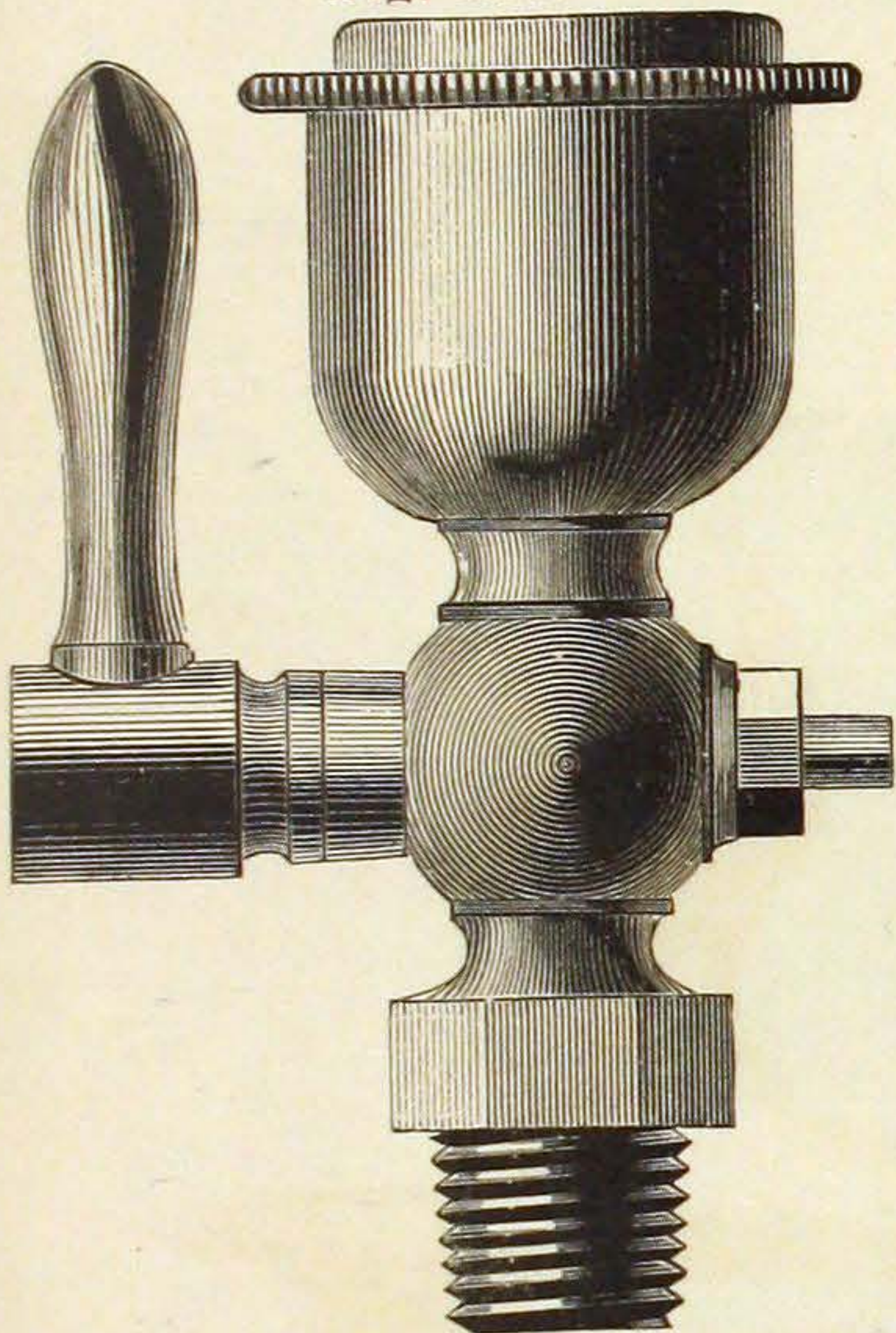
No. 7 not Illustrated.



OIL CUPS.  
FULL SIZES.

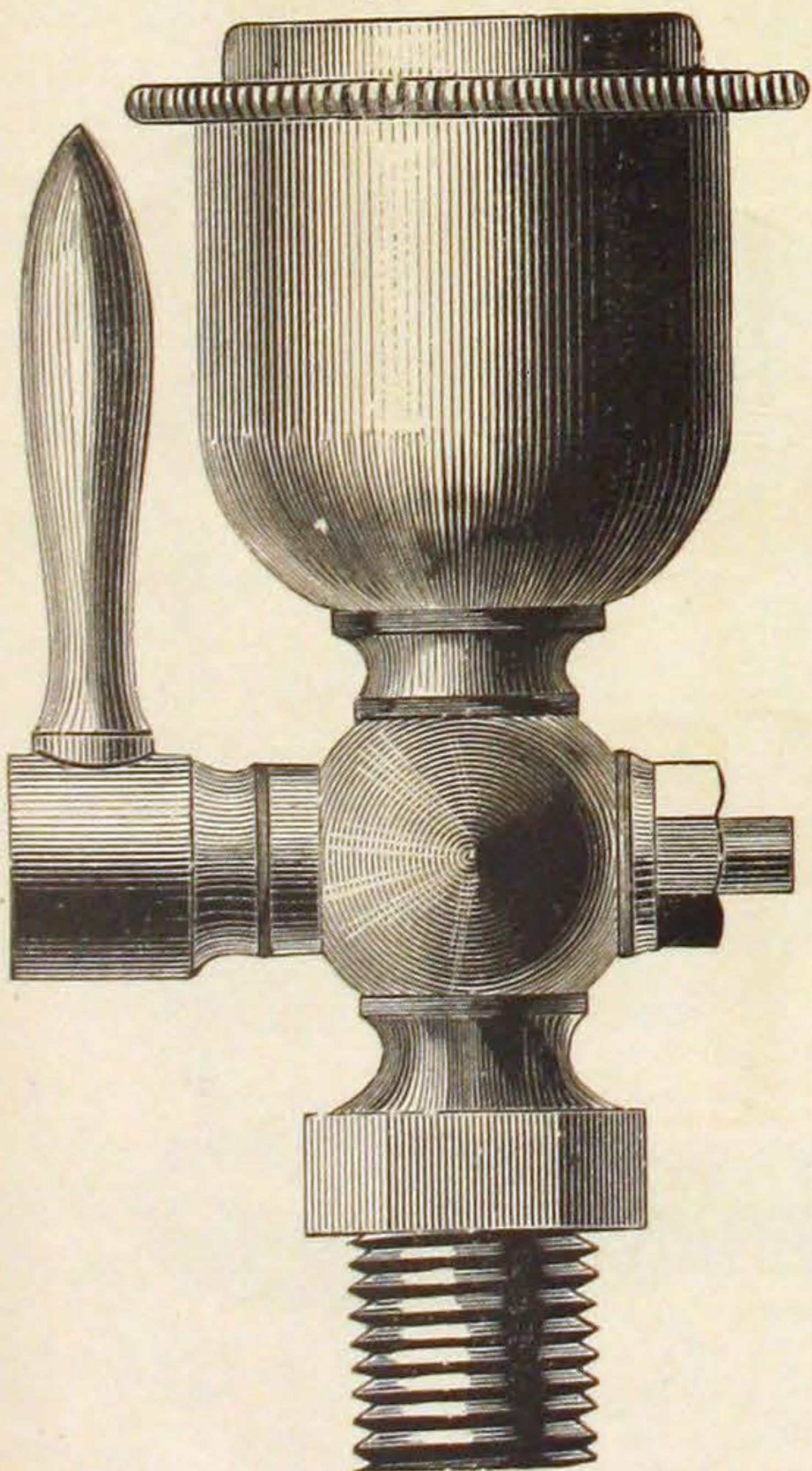
LEVER HANDLE  
OIL CUPS.

Fig. 193.



No. 1.

Fig. 194.



No. 2.

No. 1.

No. 2.

No. 3.

No. 4.

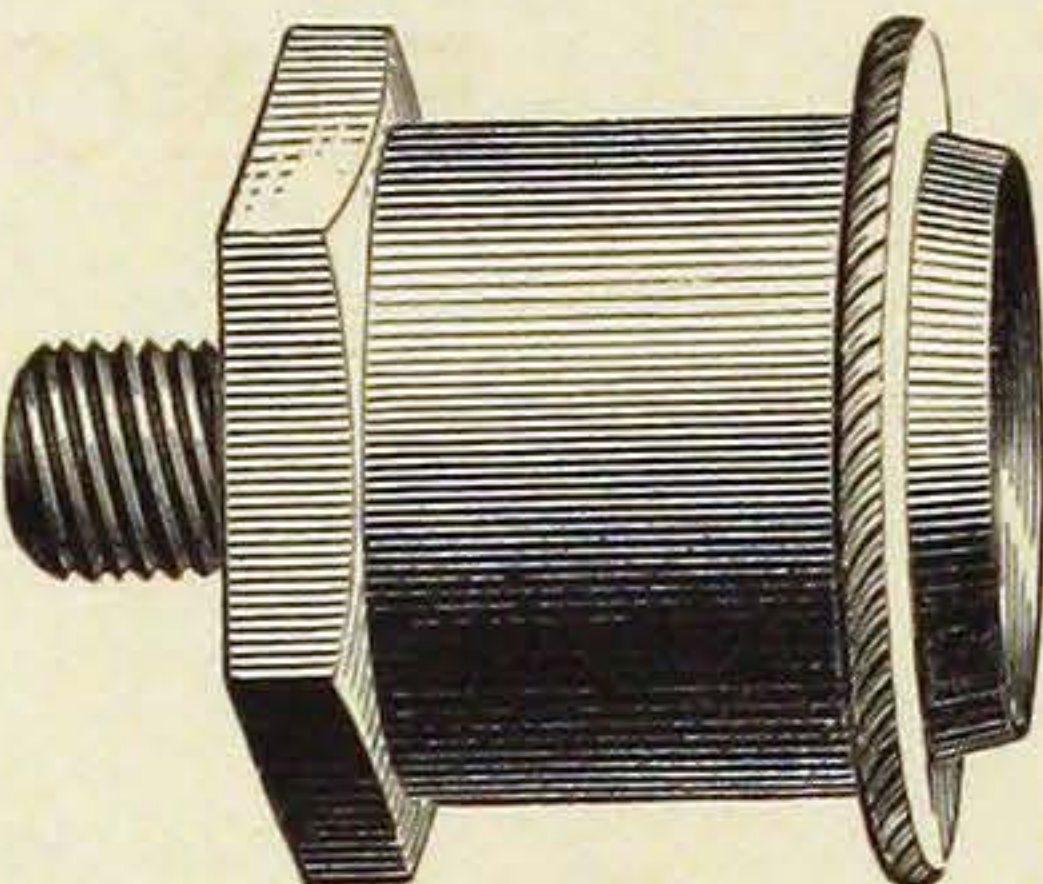


Fig. 189.

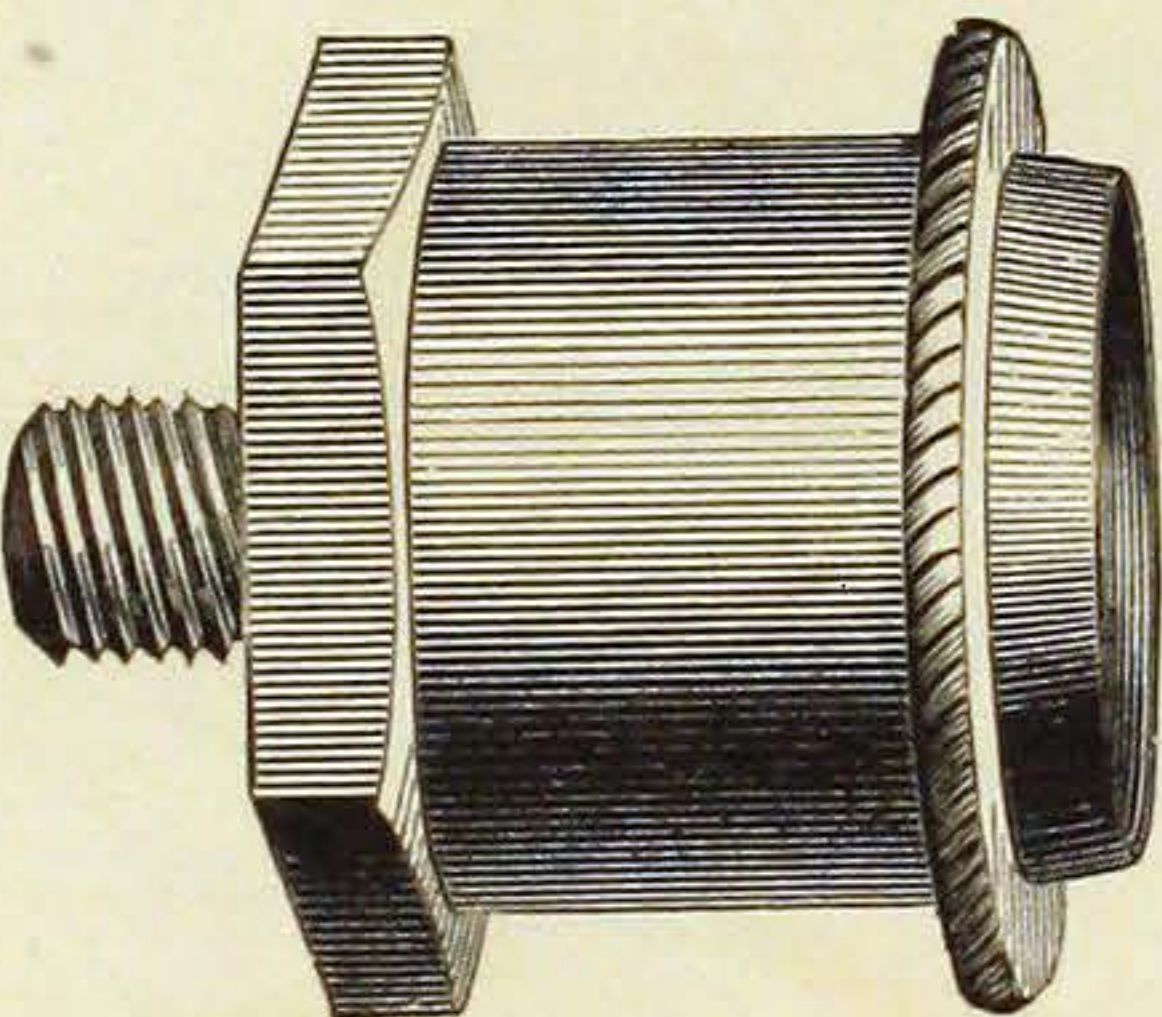


Fig. 190.

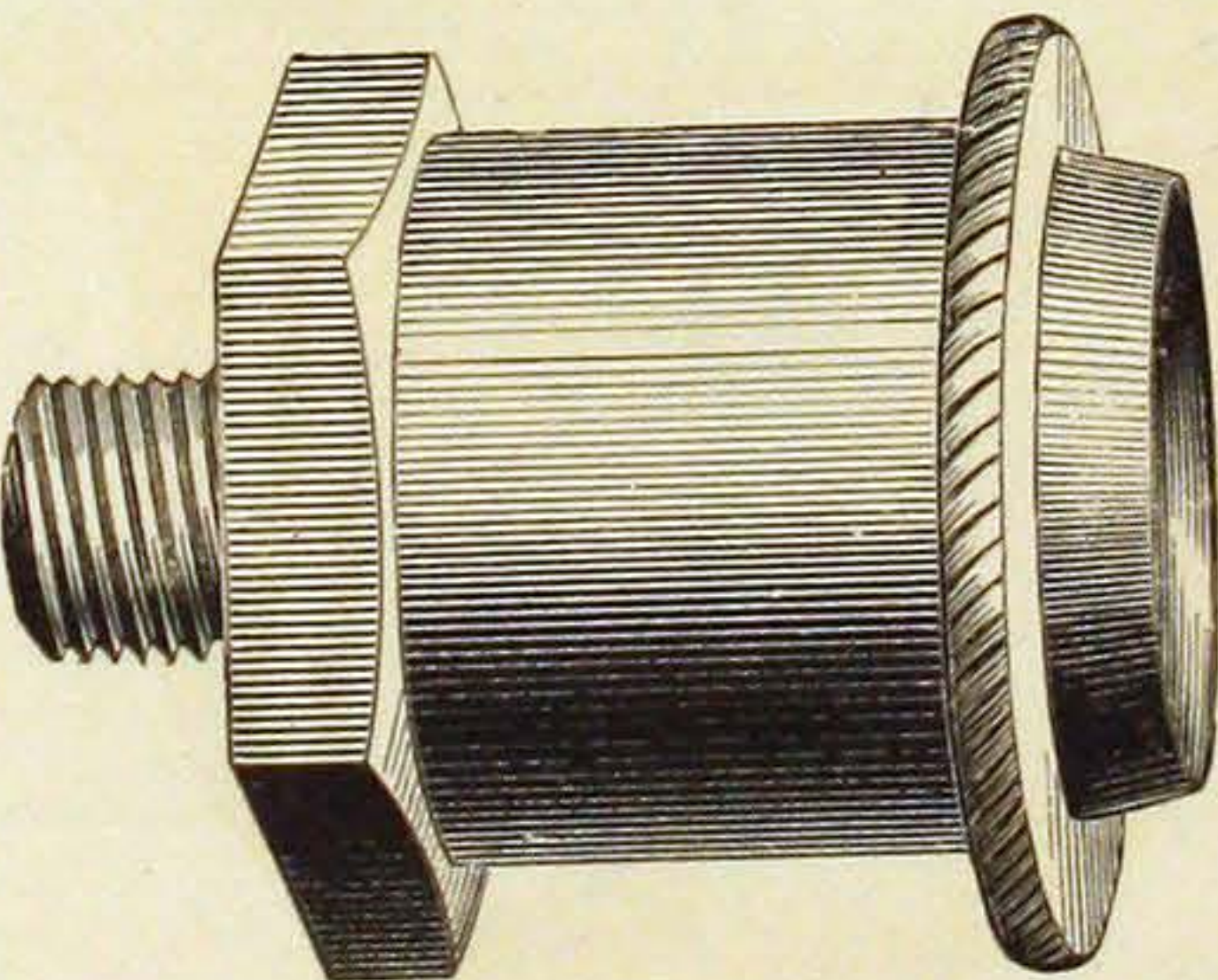


Fig. 191.

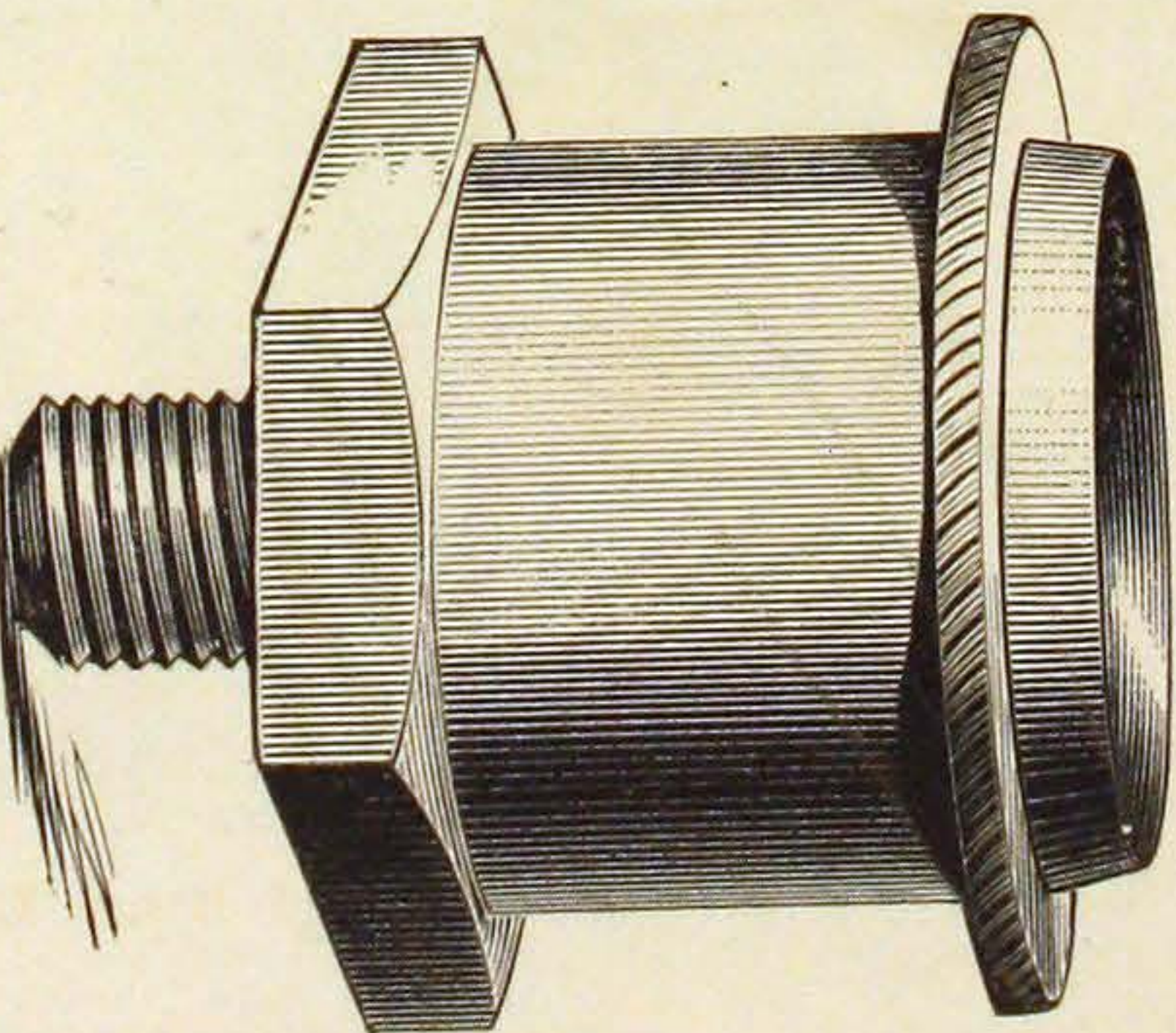


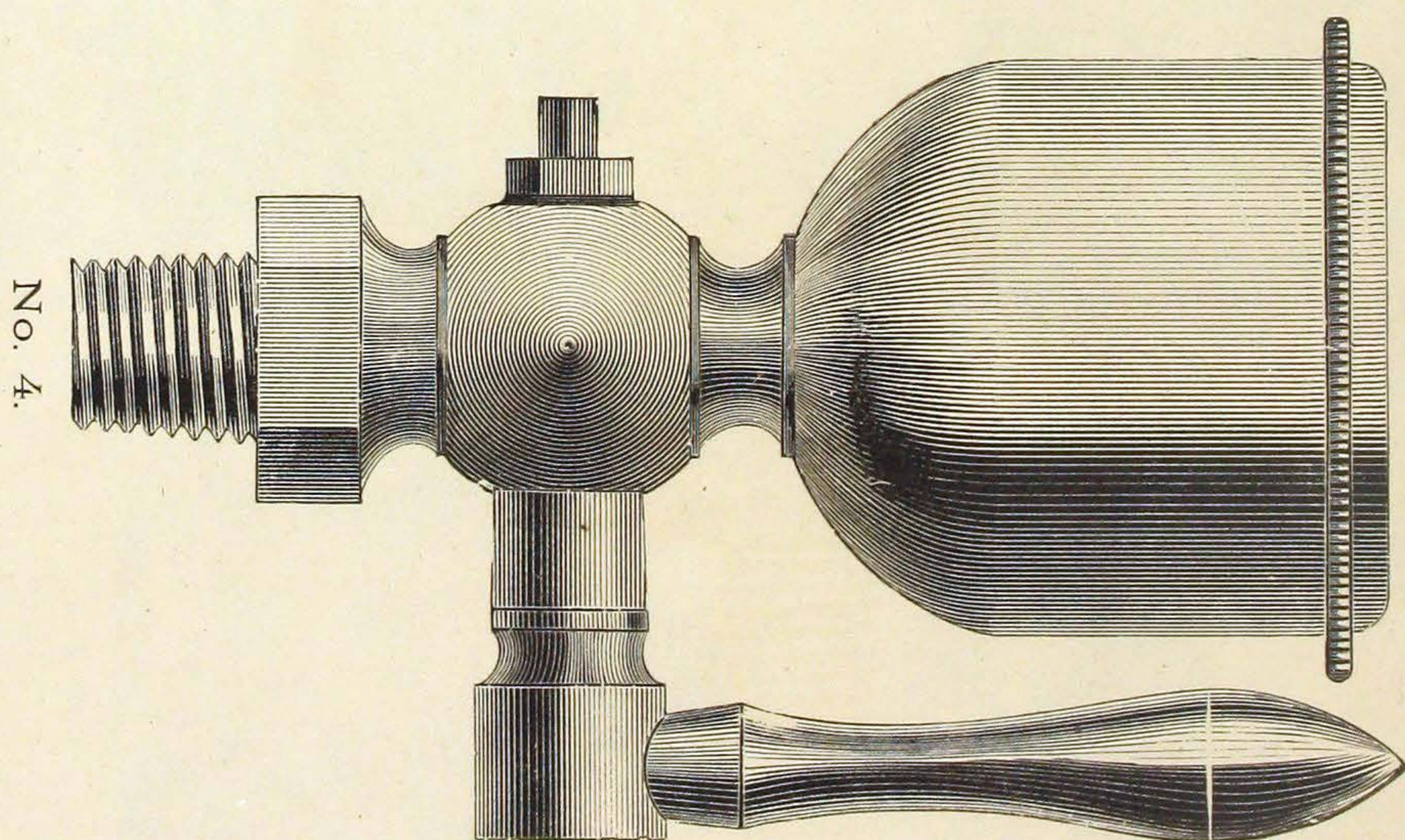
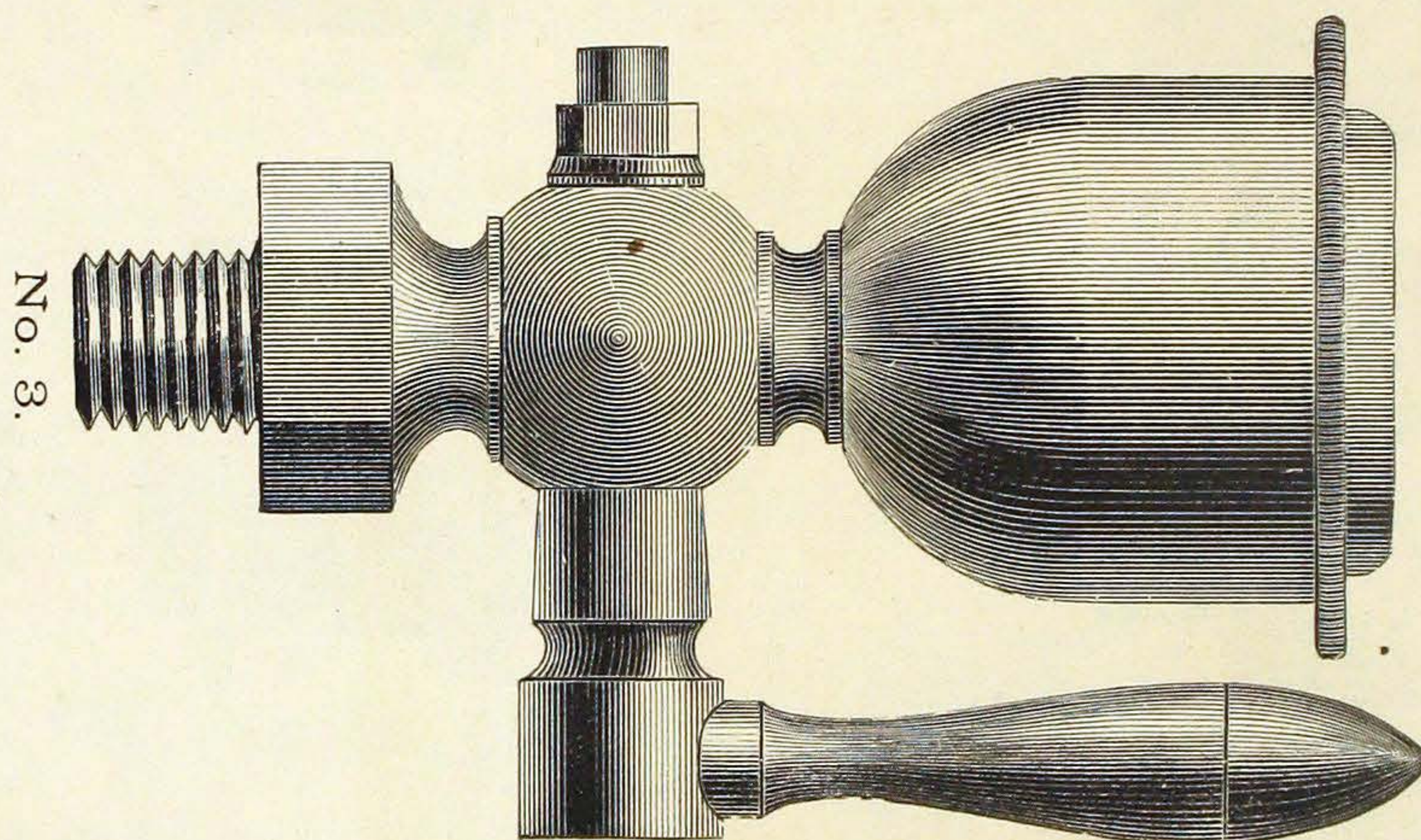
Fig. 192.

NEW PATTERN OIL CUPS.



## LEVER HANDLE OIL CUPS.

FULL SIZES.

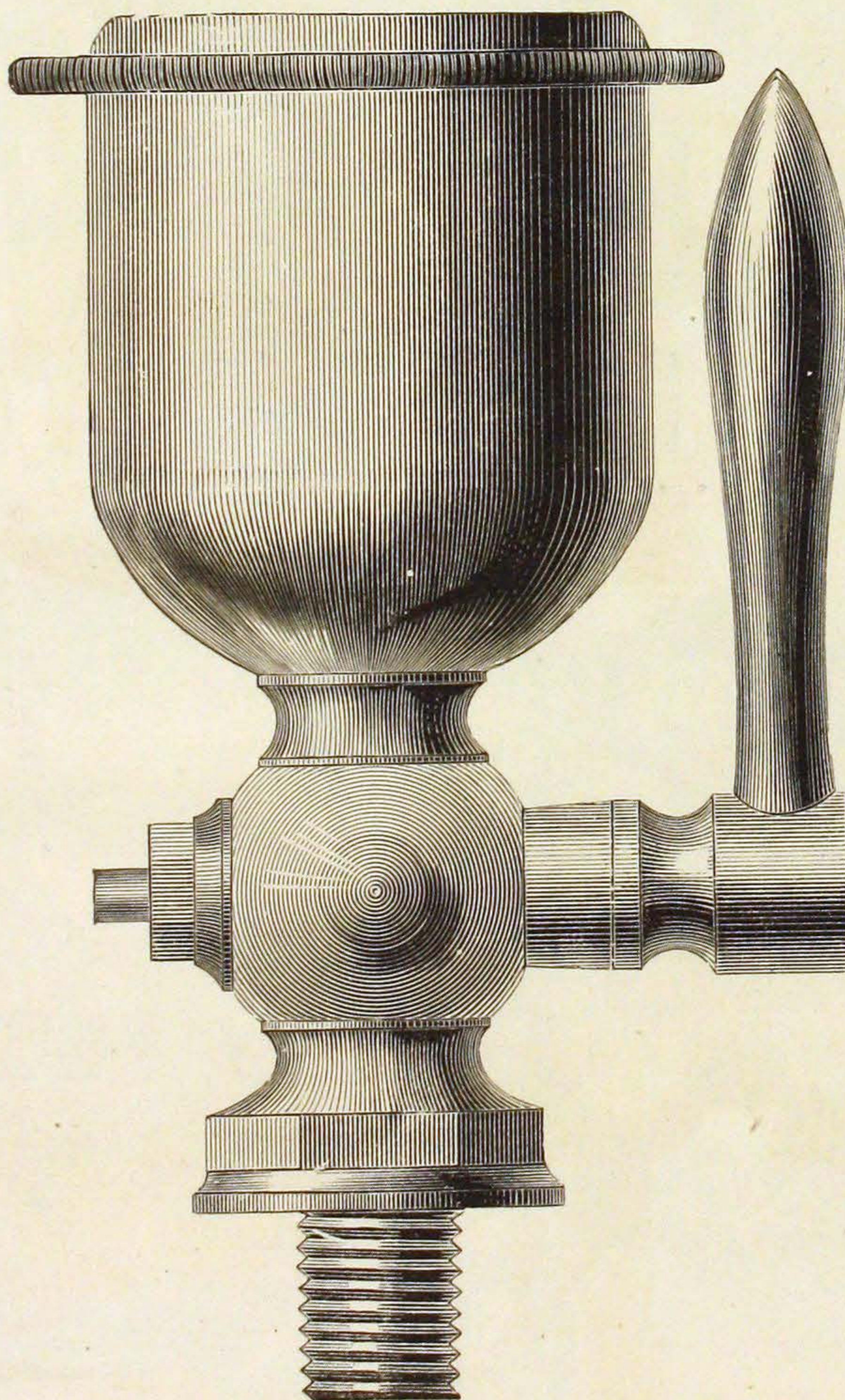




# LEVER HANDLE OIL CUP.

FULL SIZE.

Fig. 197.

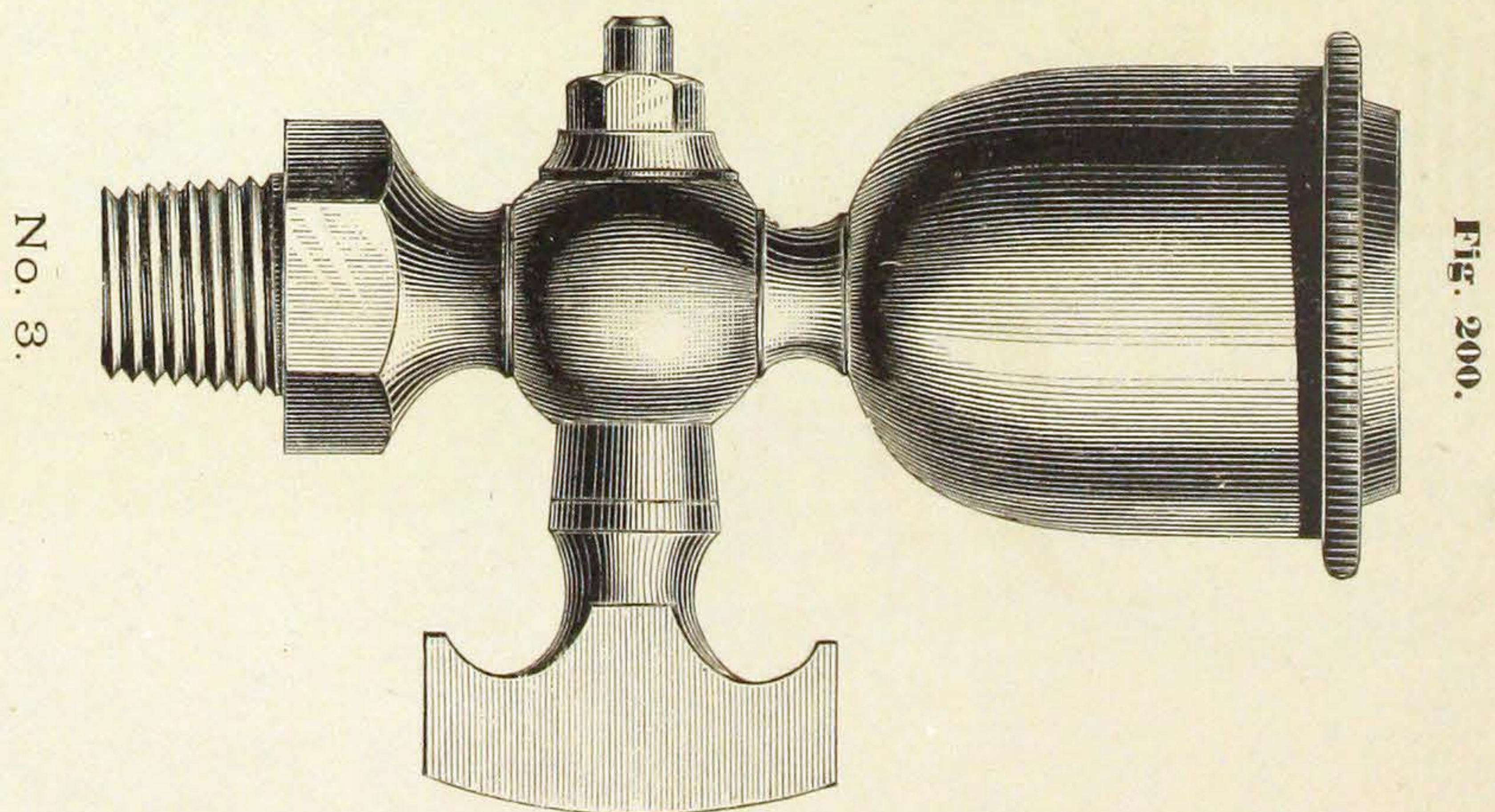
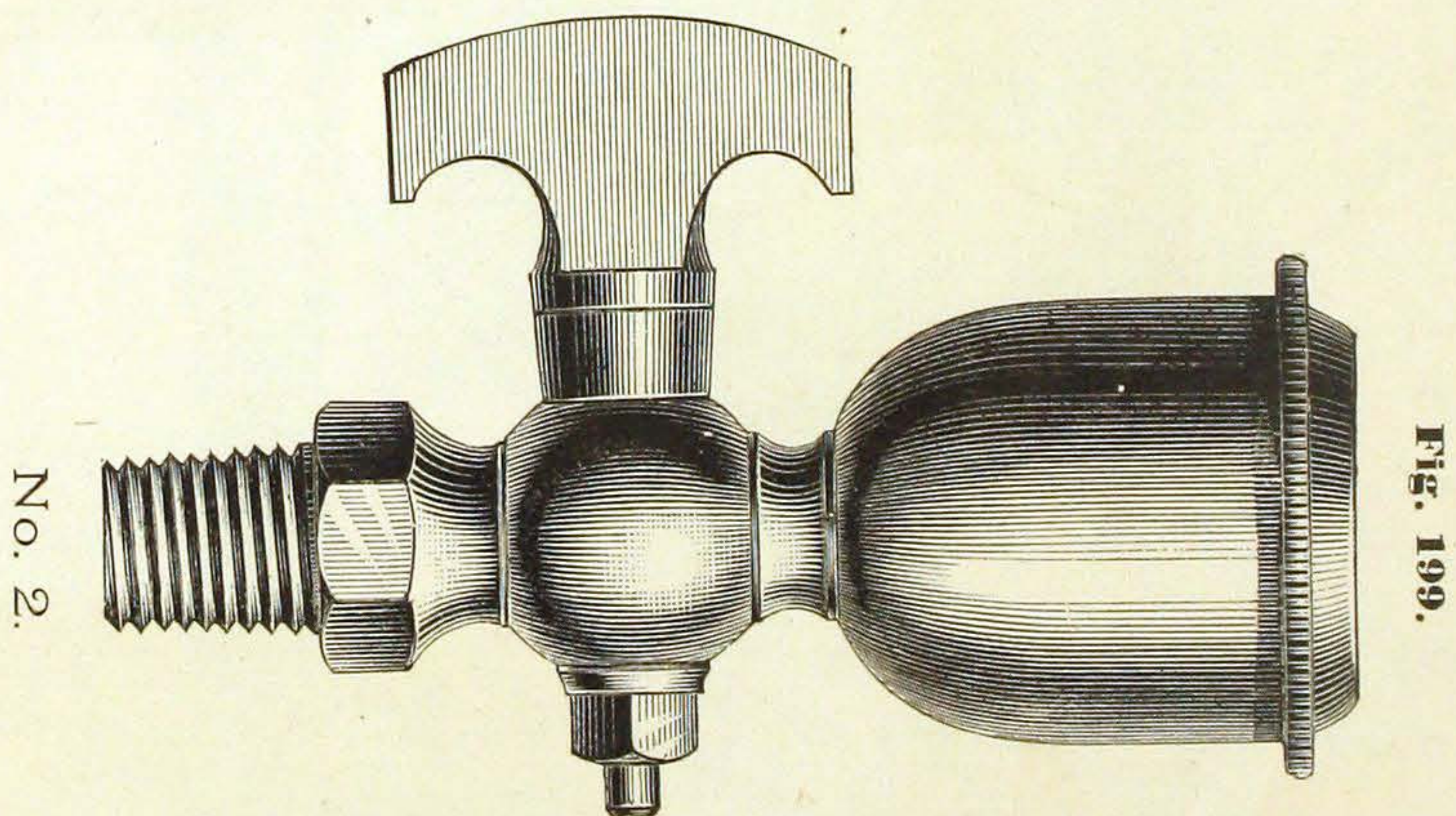
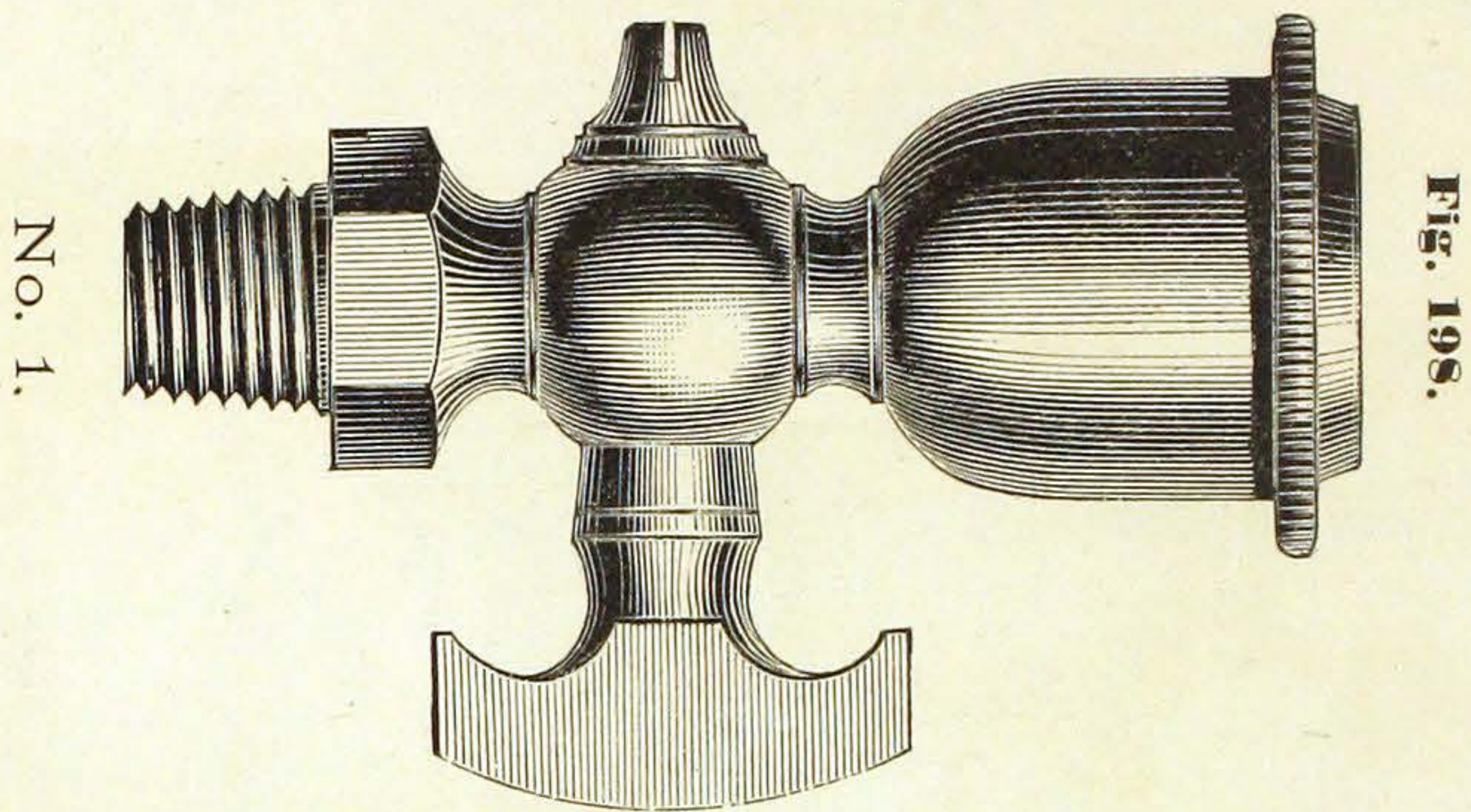


No. 5.



## T HANDLE OIL CUPS.

FULL SIZES.

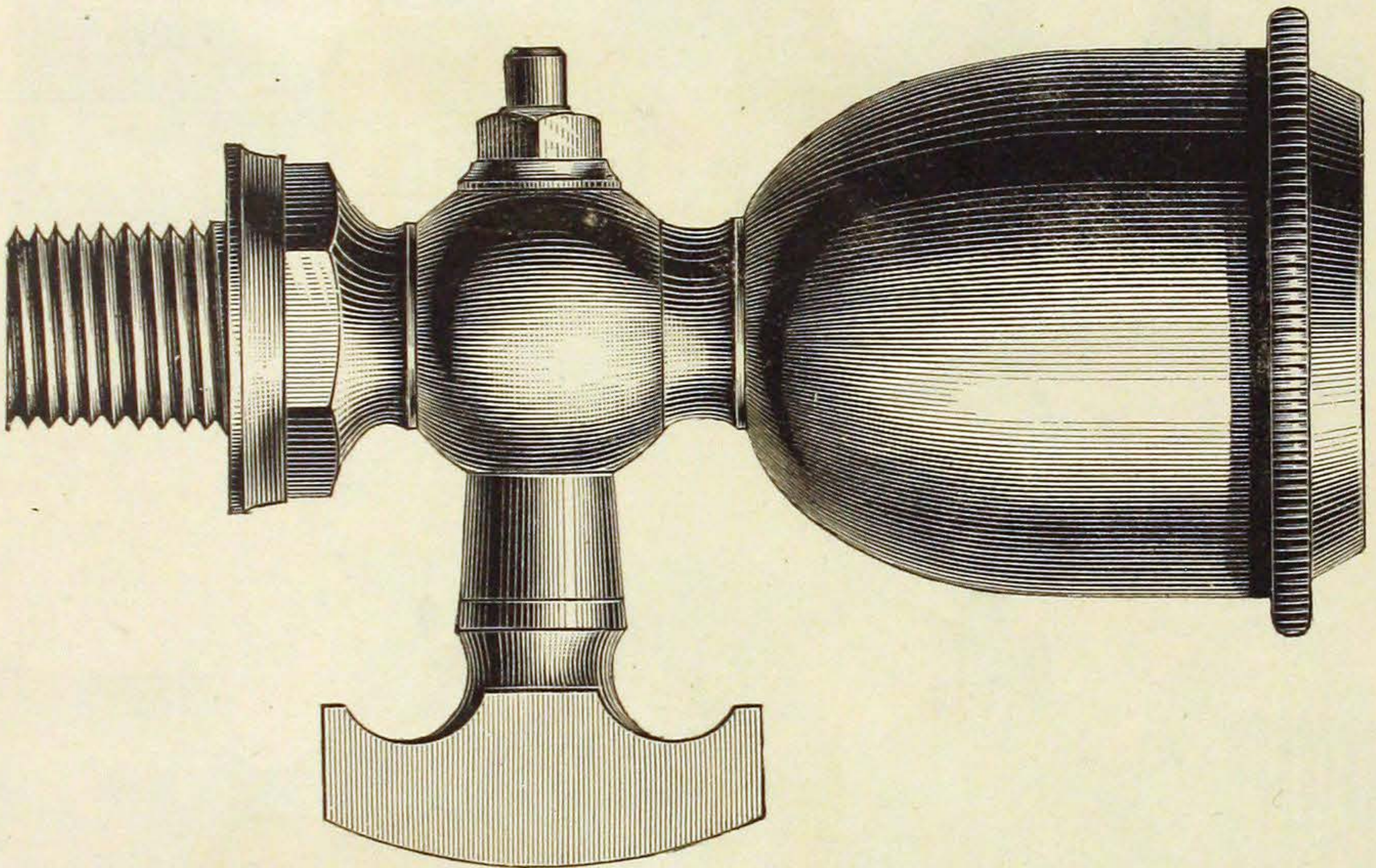




# T HANDLE OIL CUPS.

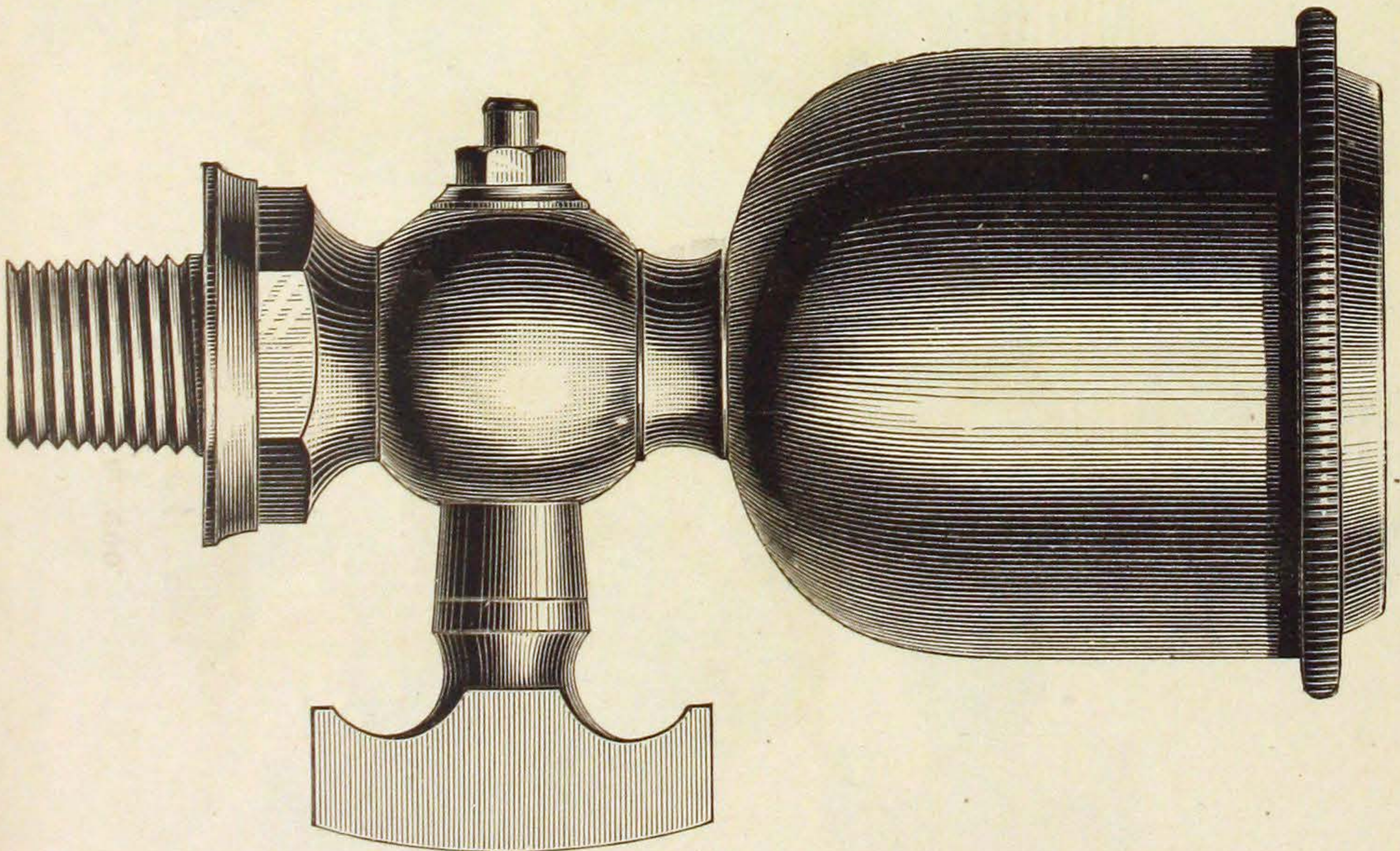
FULL SIZES.

Fig. 201.



No. 4.

Fig. 202.

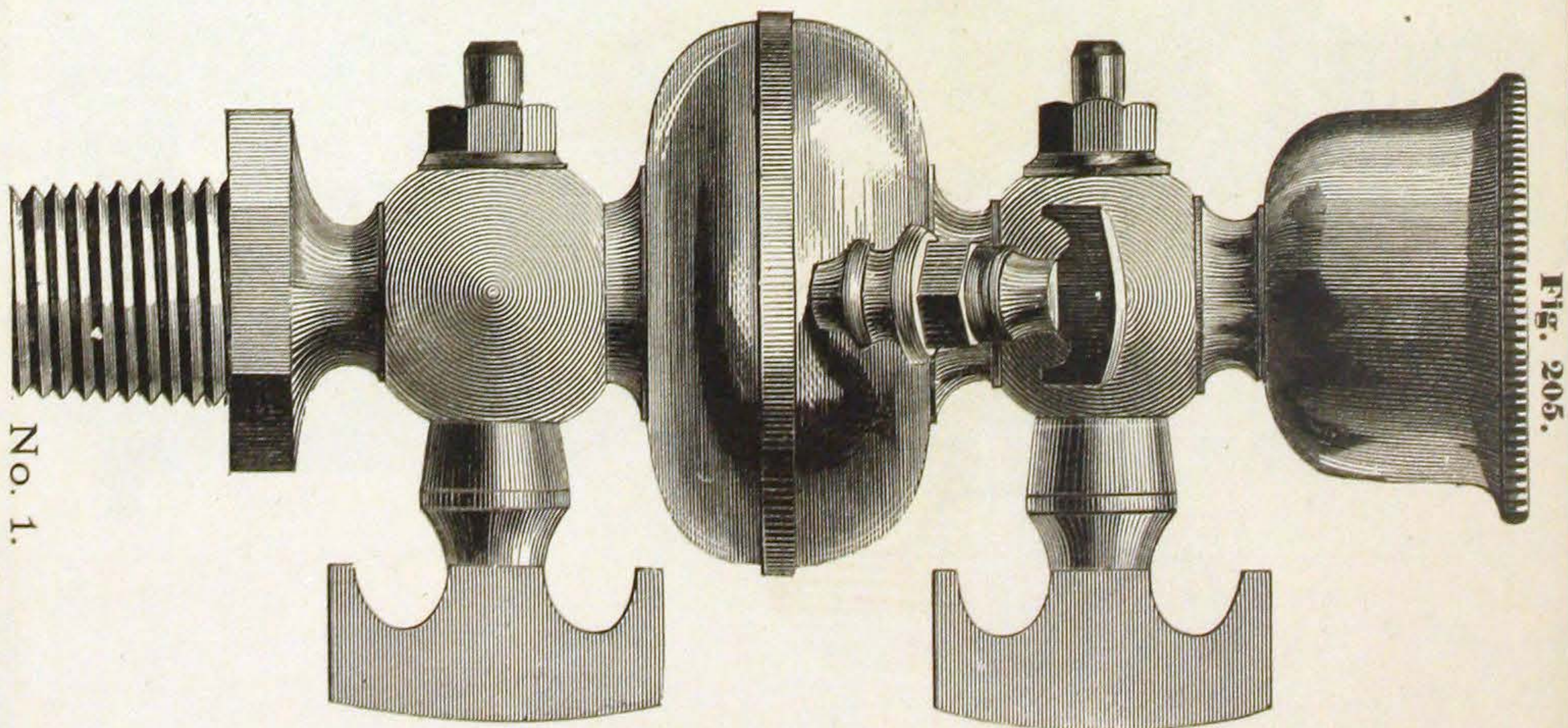
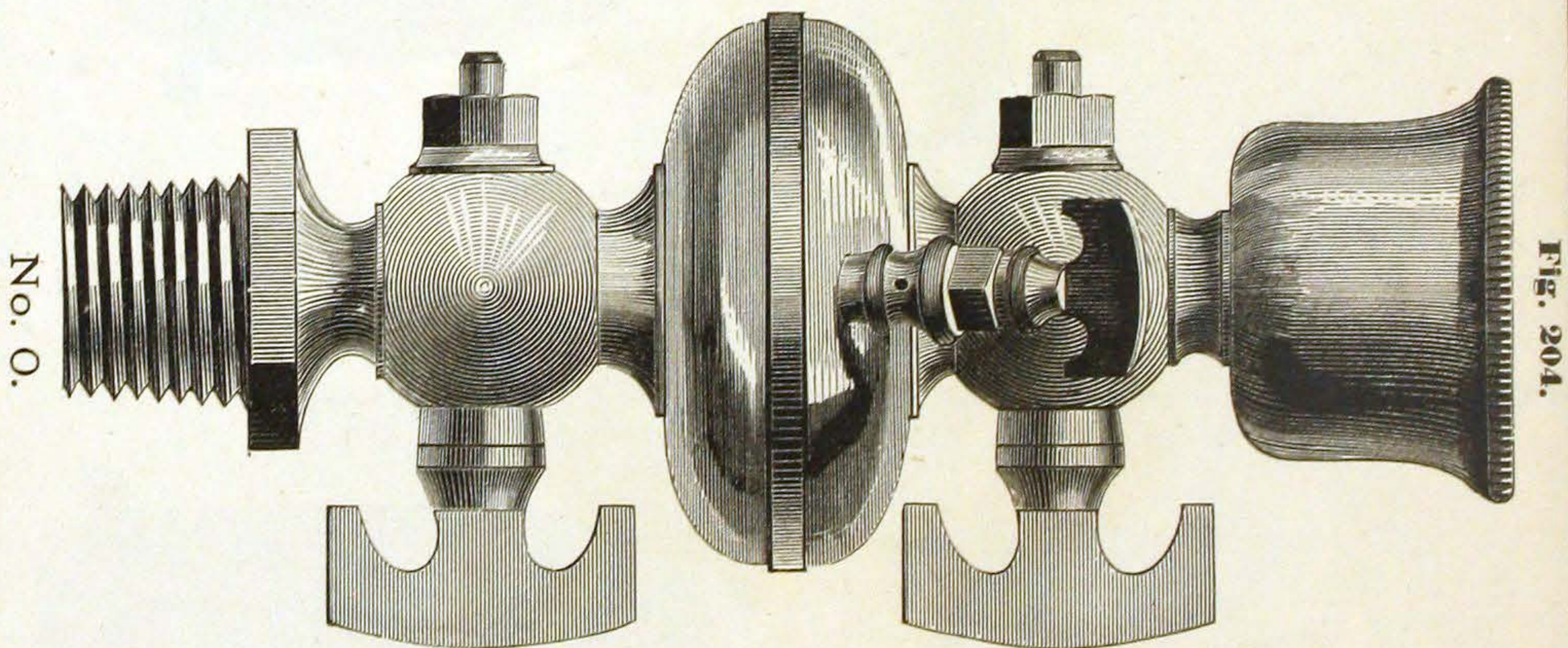
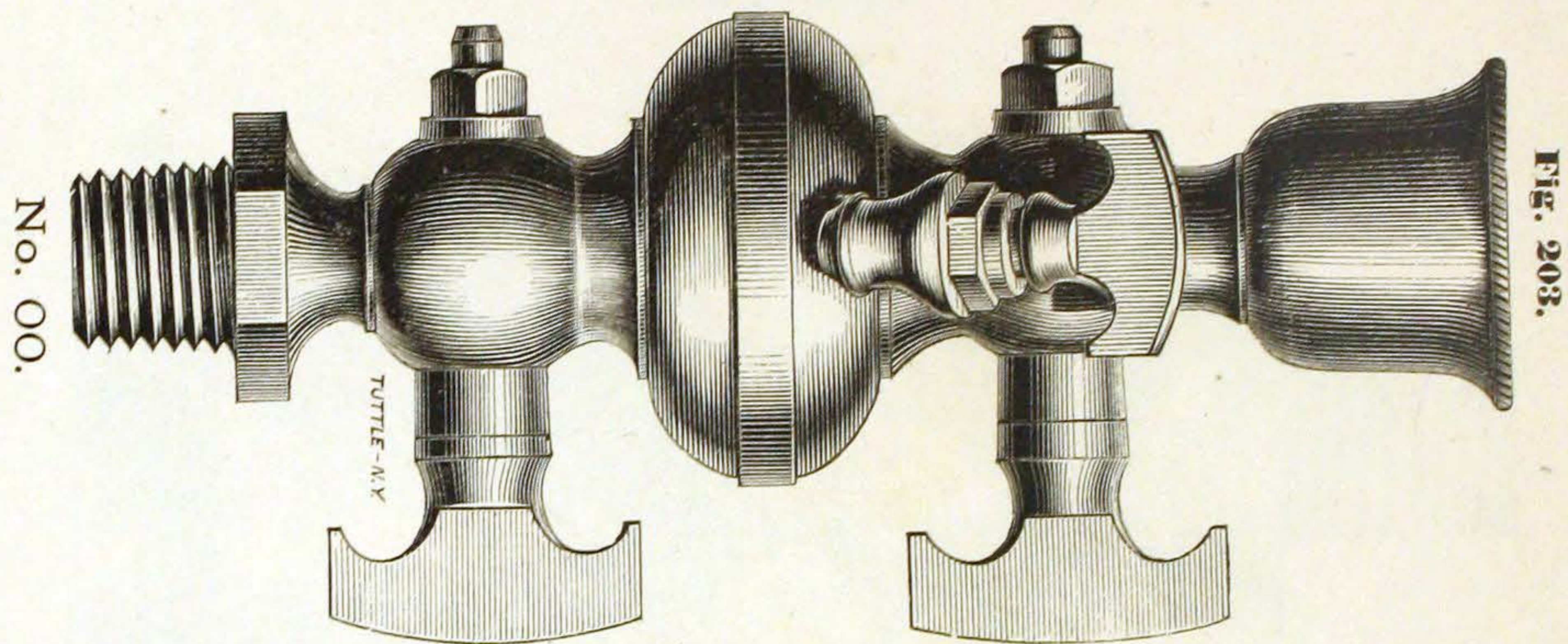


No. 5.



# GLOBE OIL CUPS.

FULL SIZES.

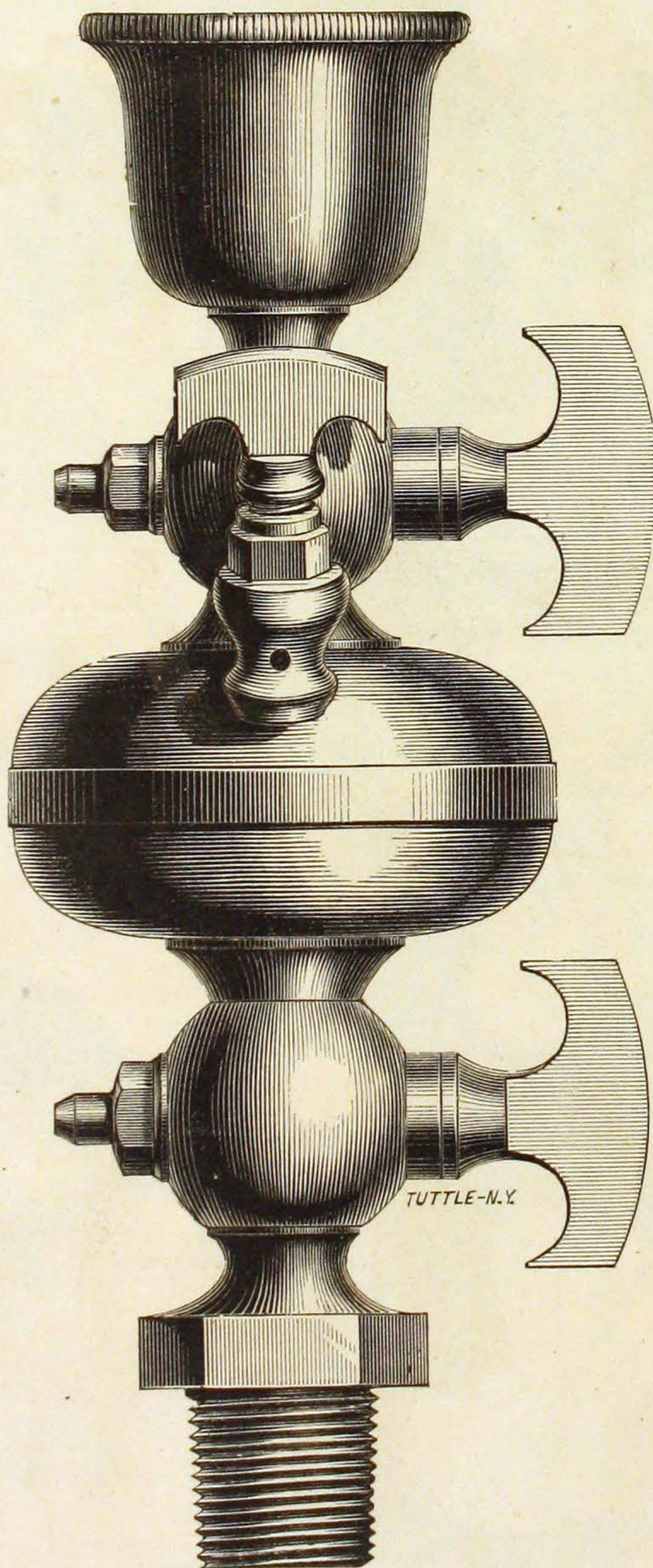




# GLOBE OIL CUP.

FULL SIZE.

Fig. 206.



No. 2.

Nos. 3 and 4, not Illustrated.



# HOLLOW PLUG OIL CUPS.

FULL SIZES.

No. 1.

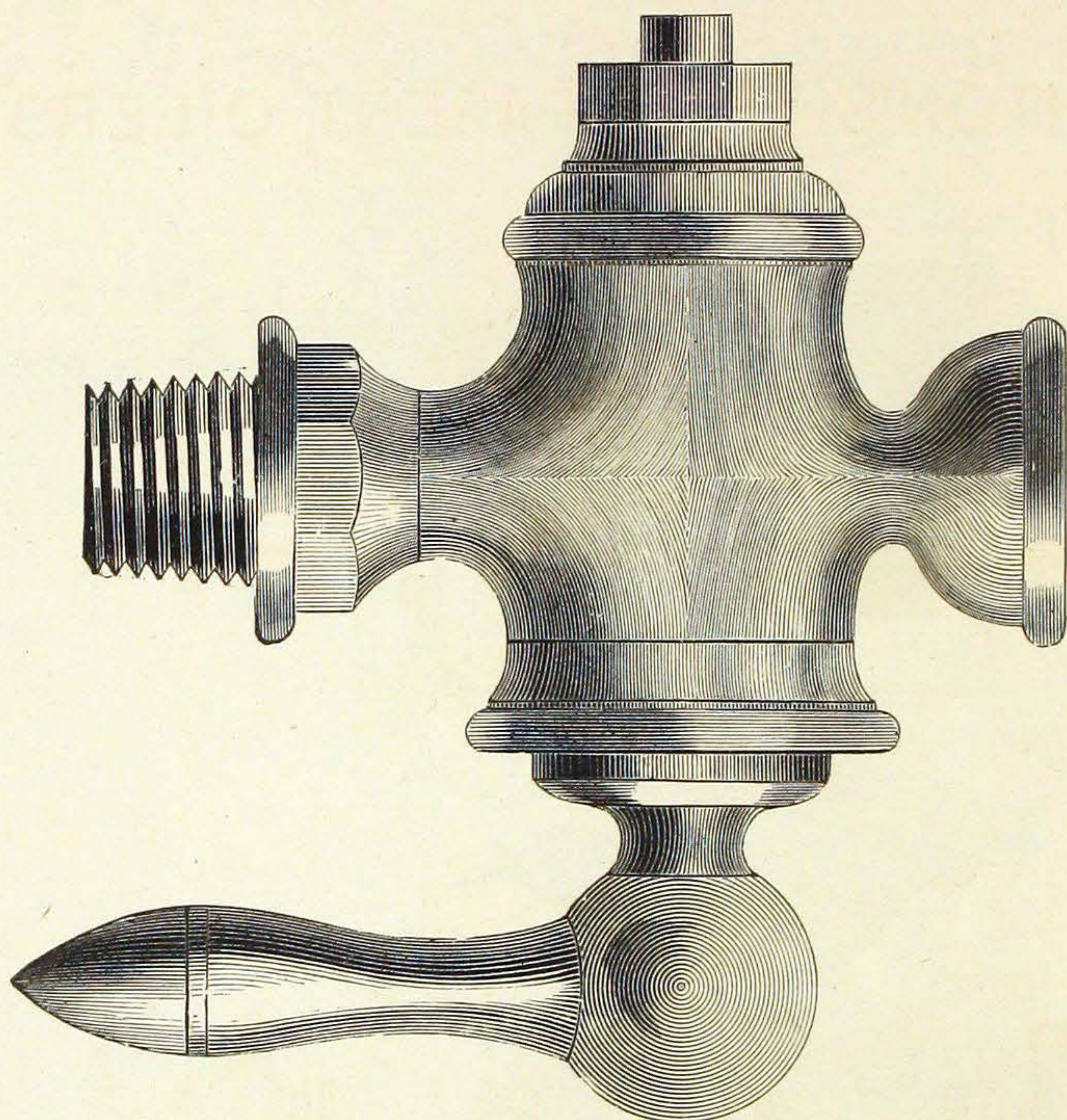


FIG. 207.

No. 2.

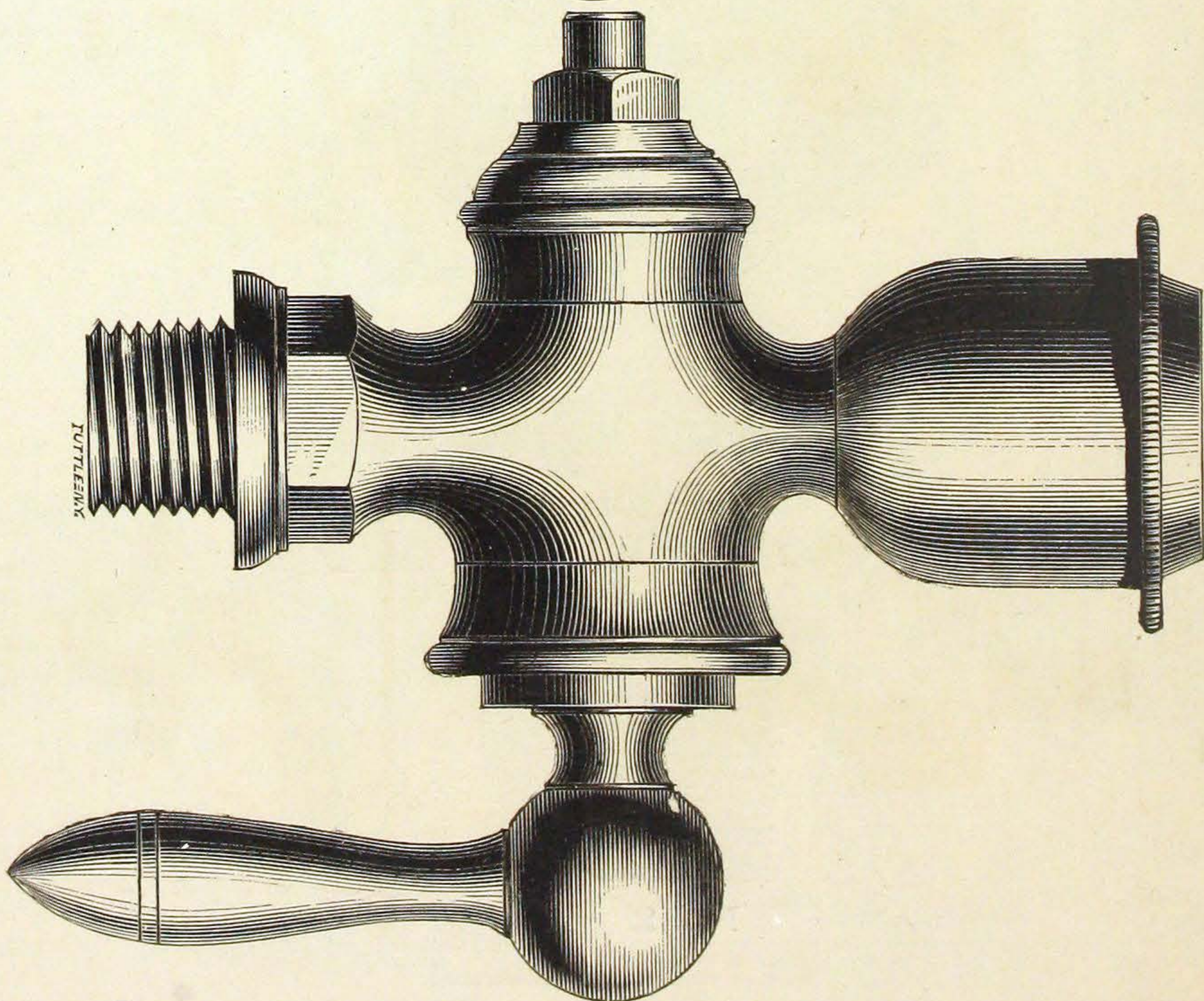


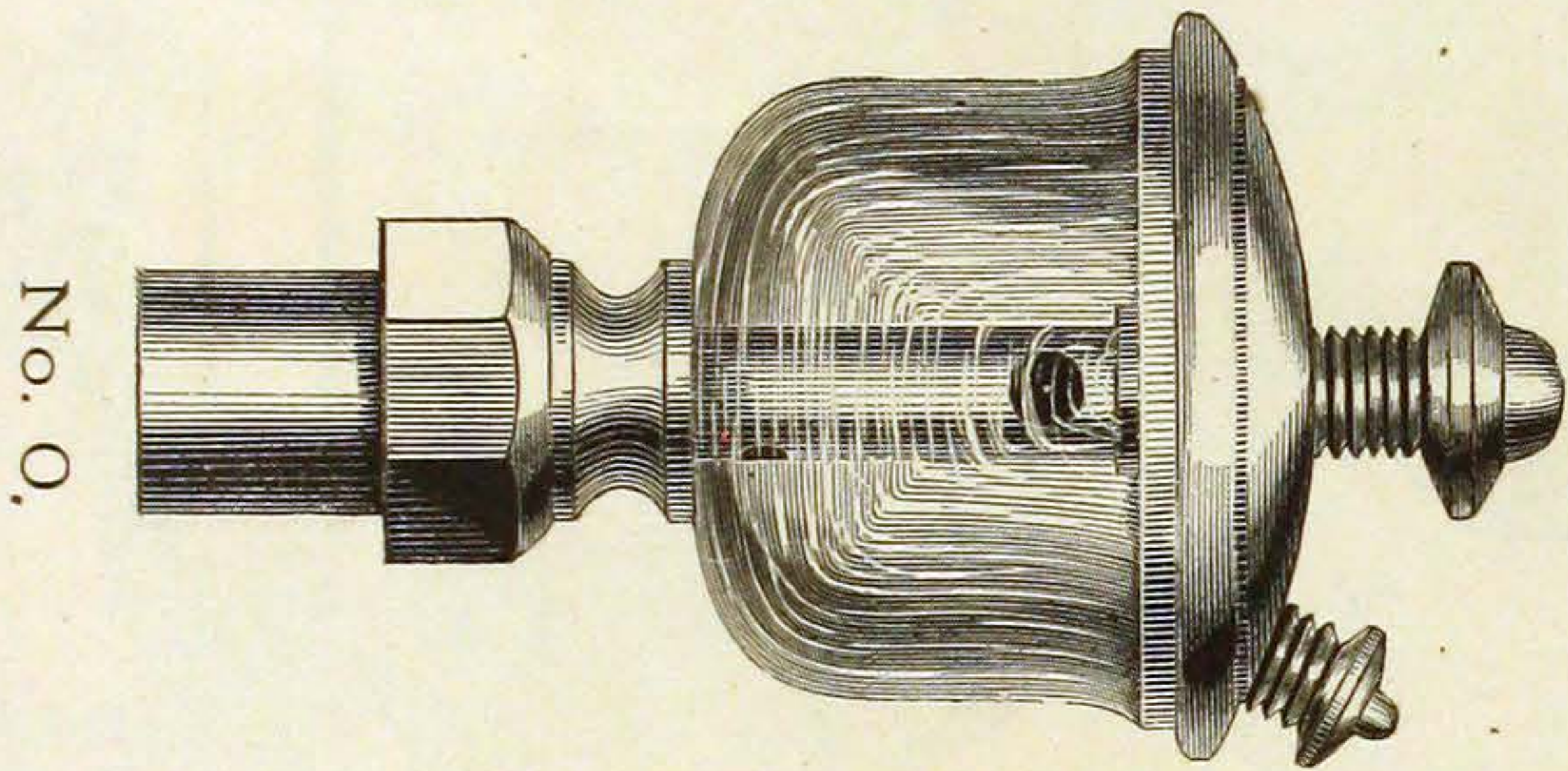
FIG. 208.



# BROUGHTON'S TRANSPARENT OILERS.

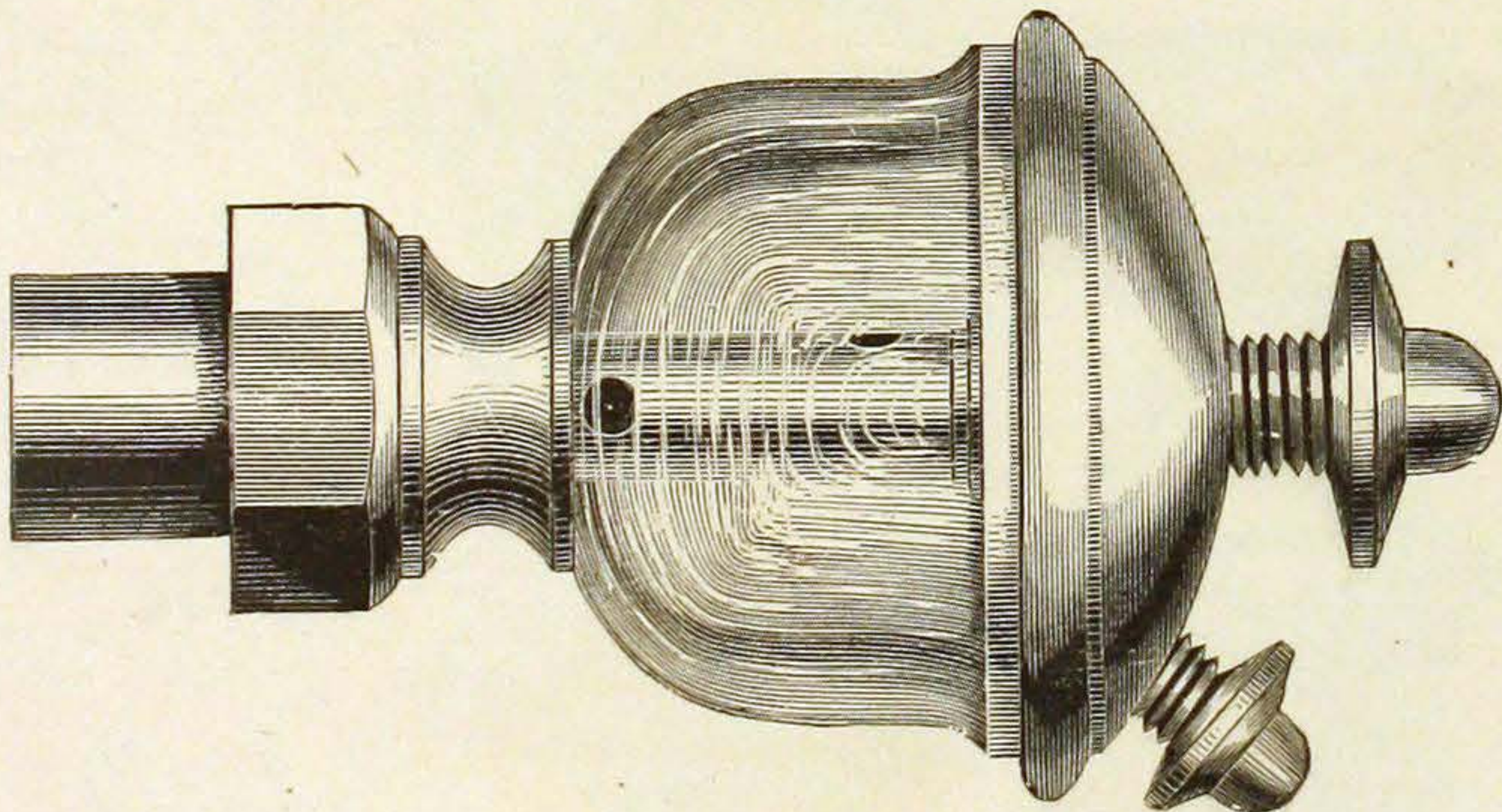
FULL SIZES.

Fig. 209.



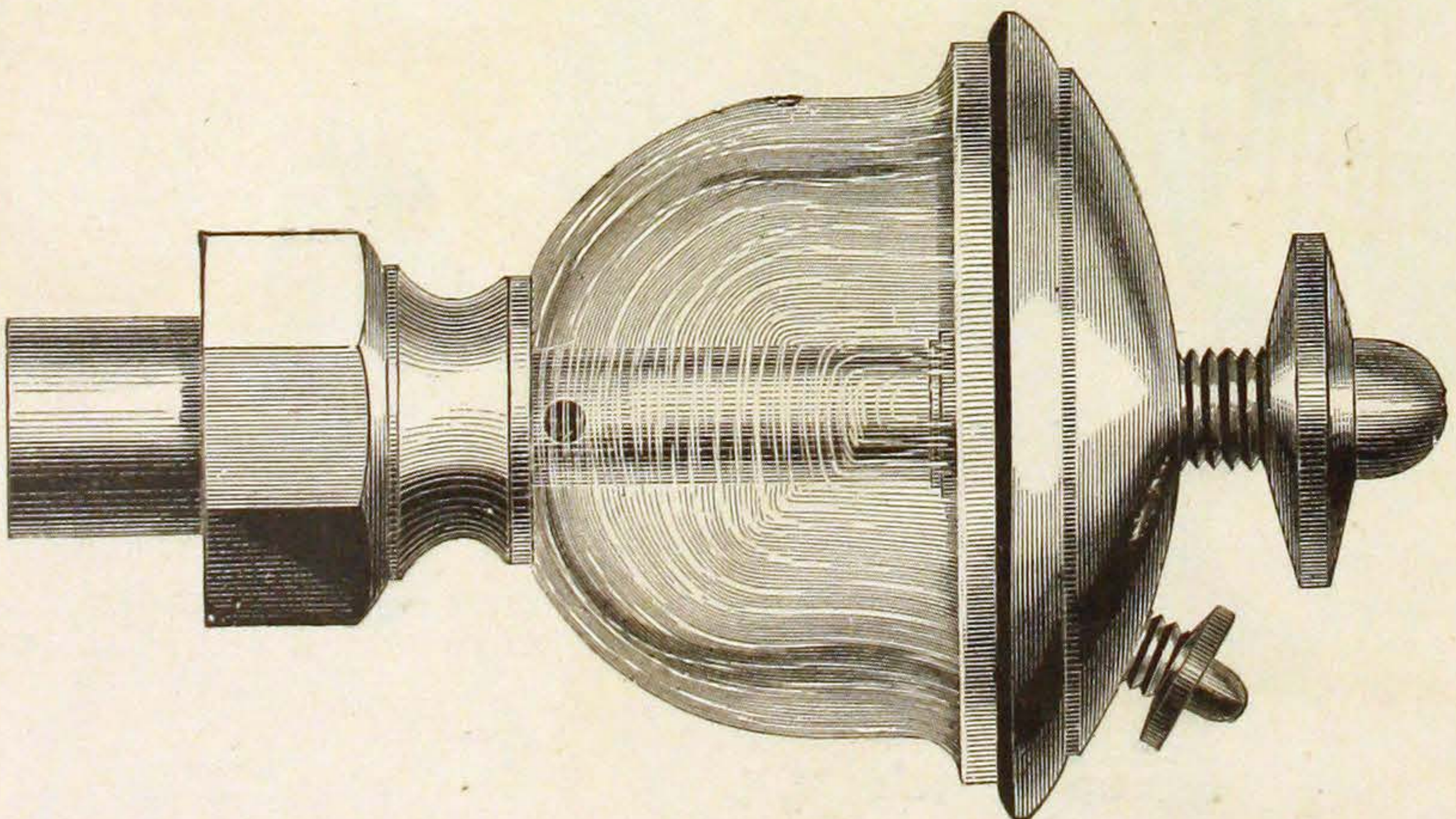
No. 0.

Fig. 210.



No. 1.

Fig. 211.



No. 2.



## TRANSPARENT OILER AND LUBRICATOR.

No. 3.

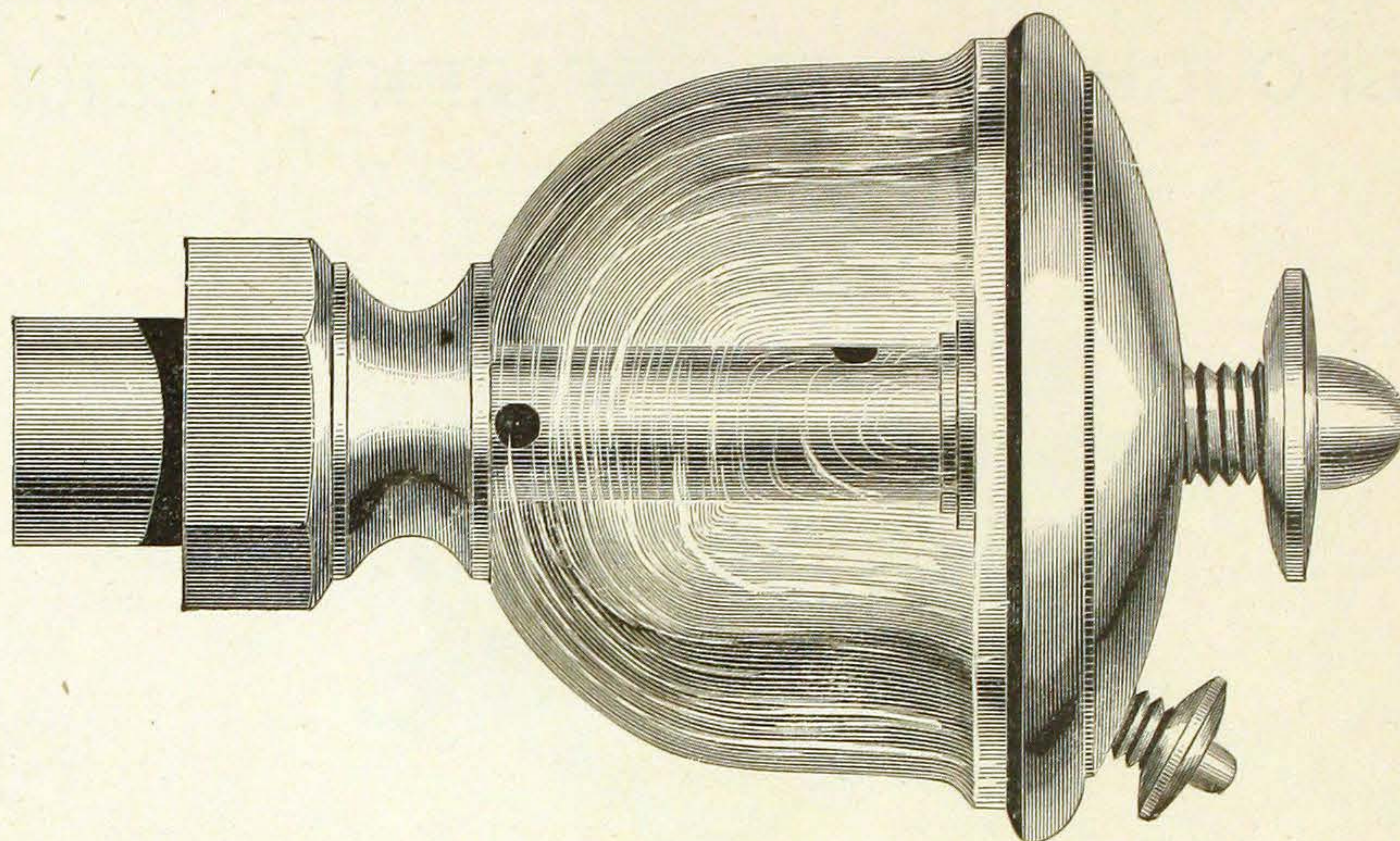
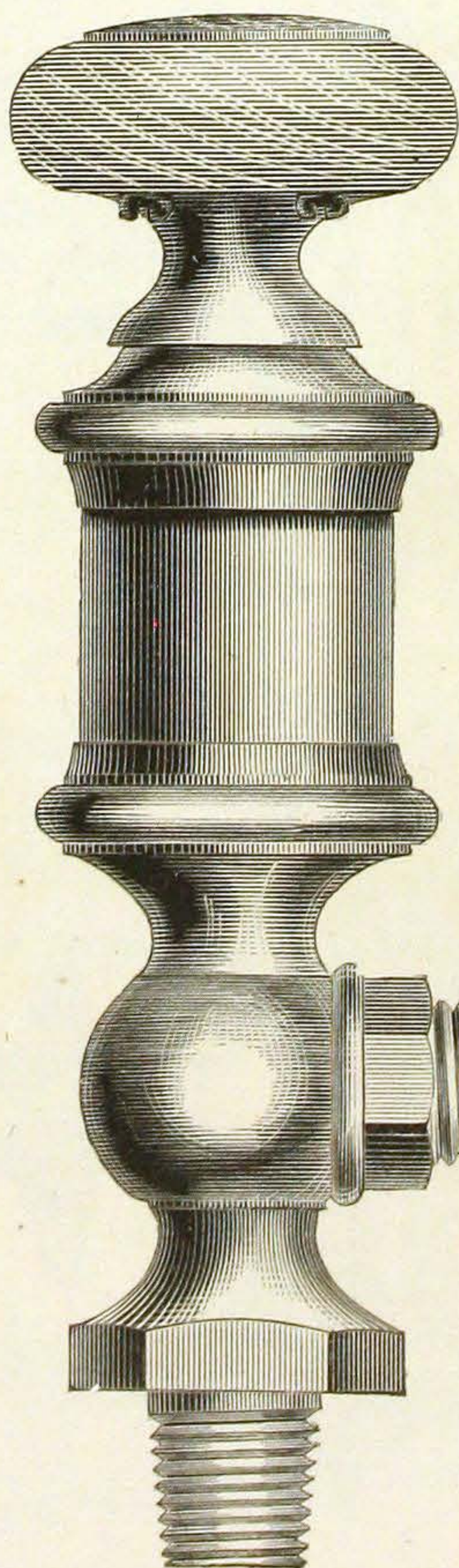


Fig. 212.



## COMMON LUBRICATOR.

FULL SIZE.

Fig. 213.

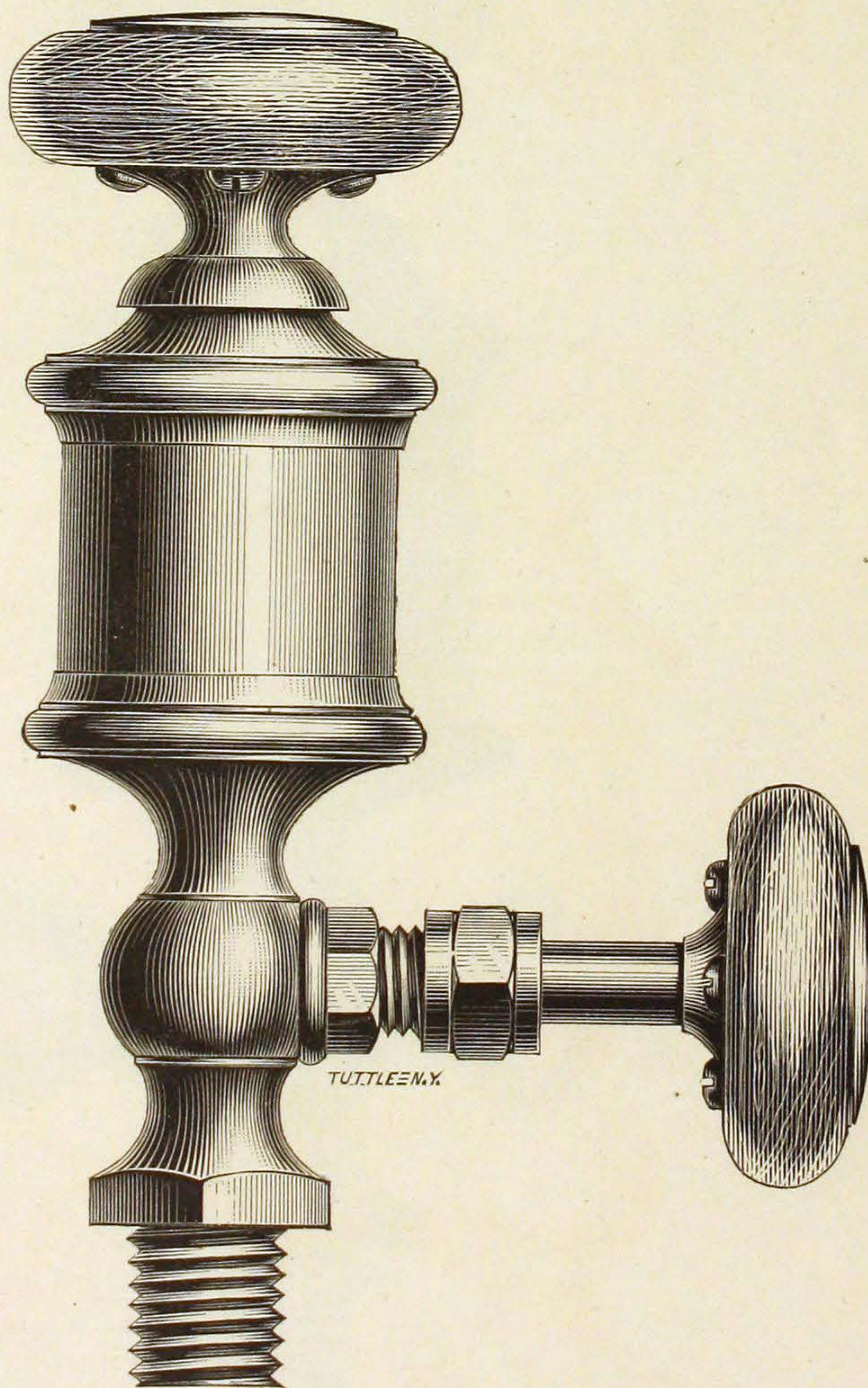
No. 1.



# COMMON LUBRICATOR.

FULL SIZE.

Fig. 214.



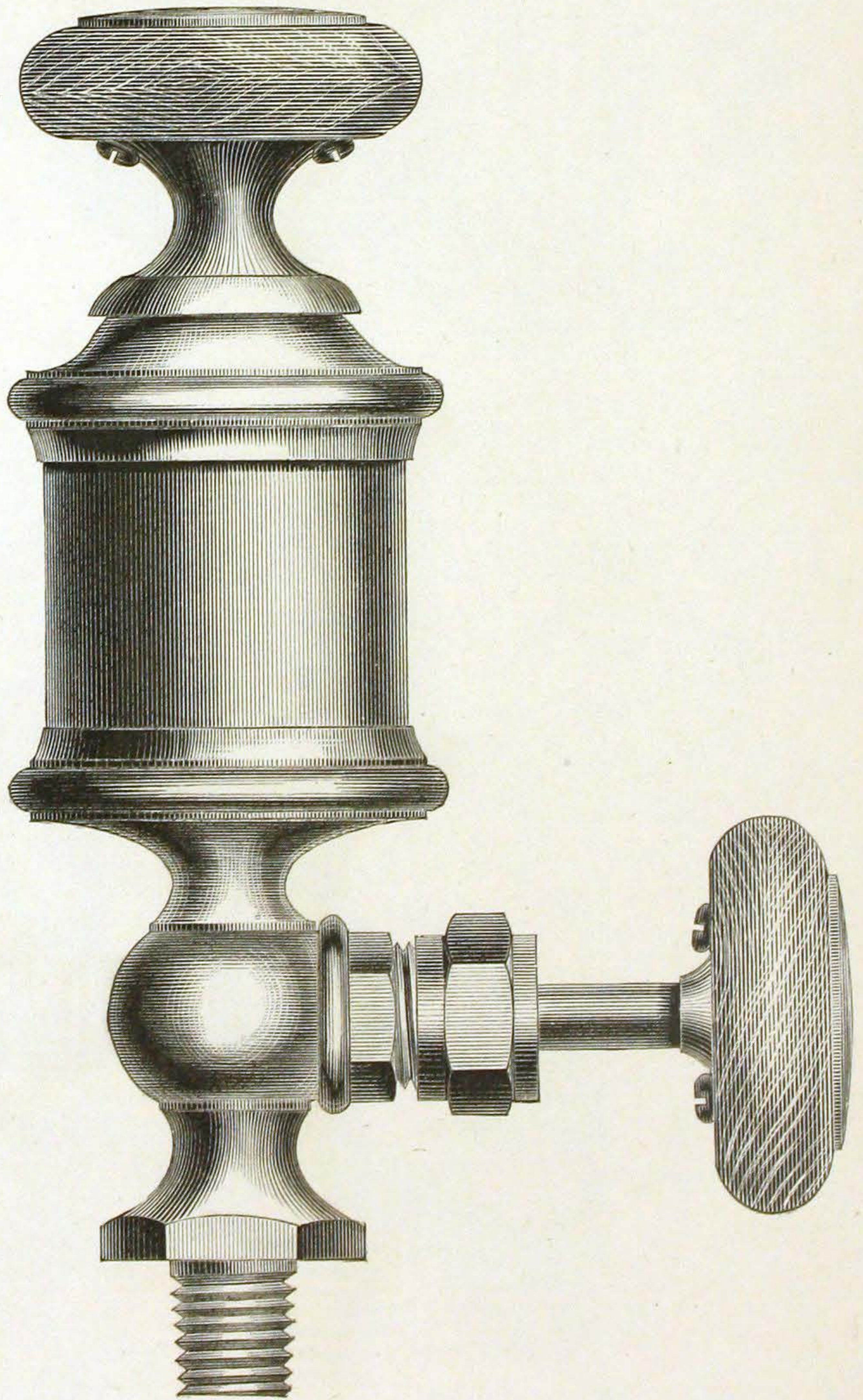
No. 2.



## COMMON LUBRICATOR.

FULL SIZE.

Fig. 215.



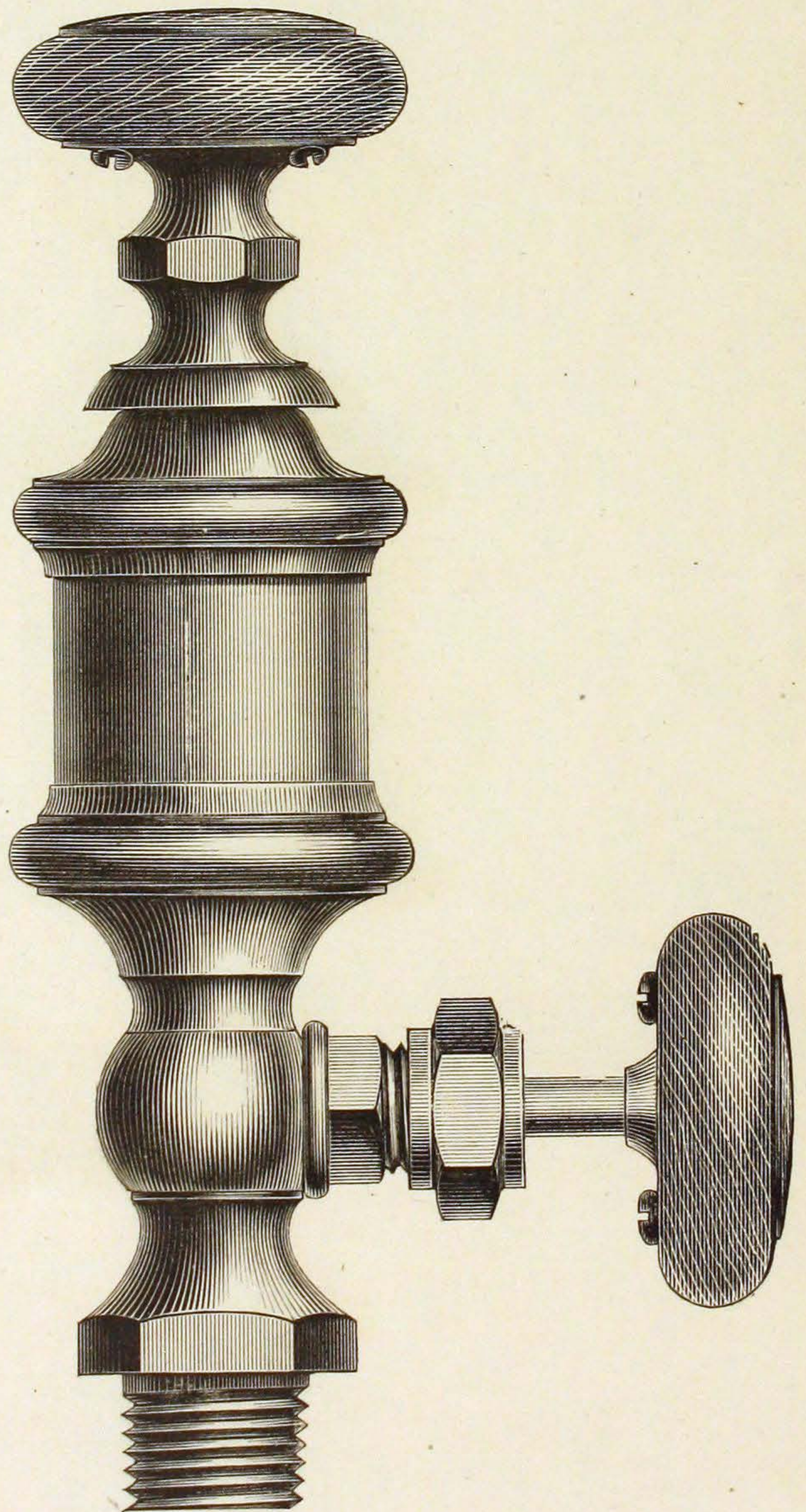
No. 3.



# COMMON LUBRICATOR.

FULL SIZE.

Fig. 216.



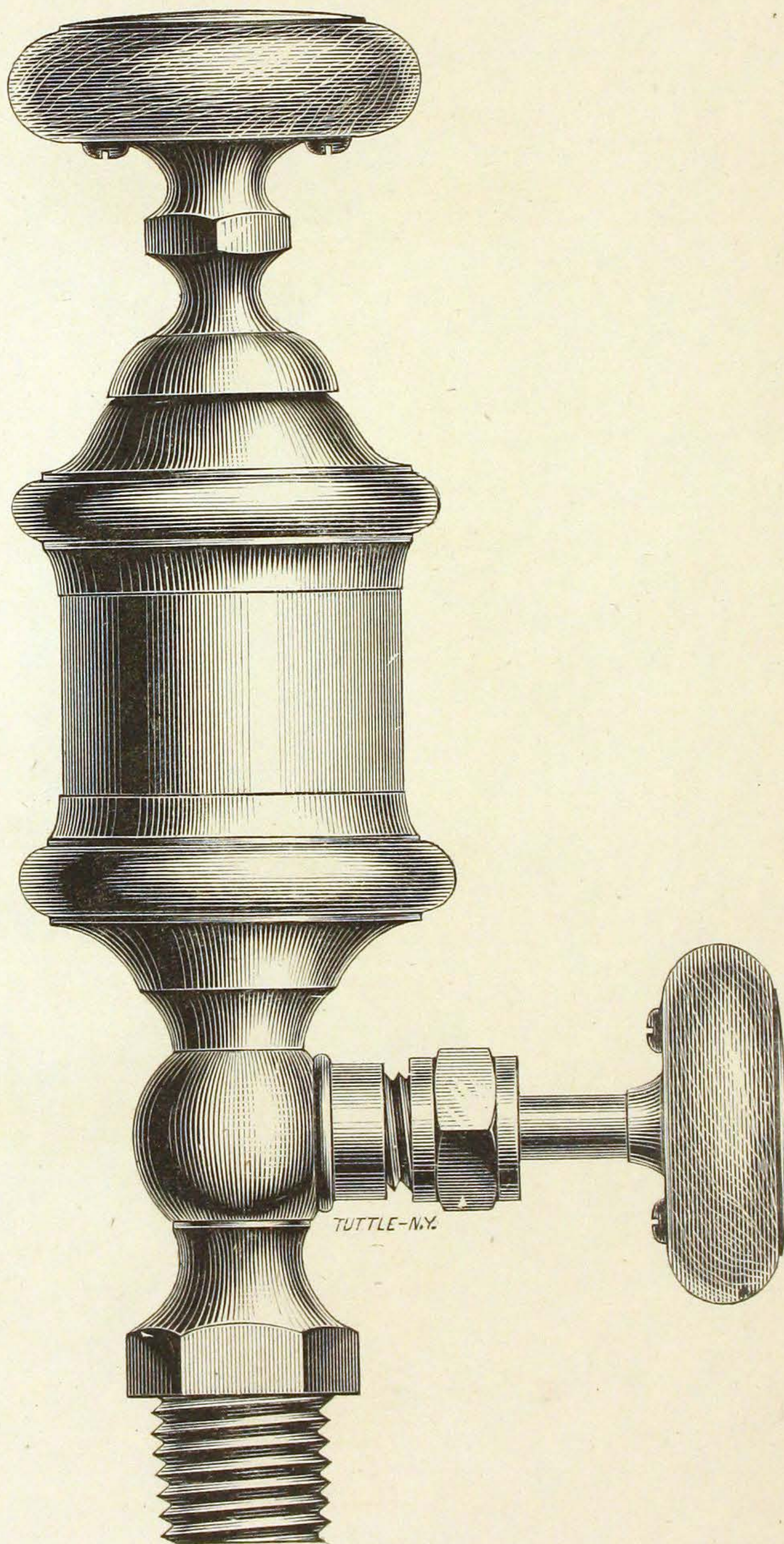
No. 4.



## COMMON LUBRICATOR.

FULL SIZE.

Fig. 217.



No. 3.

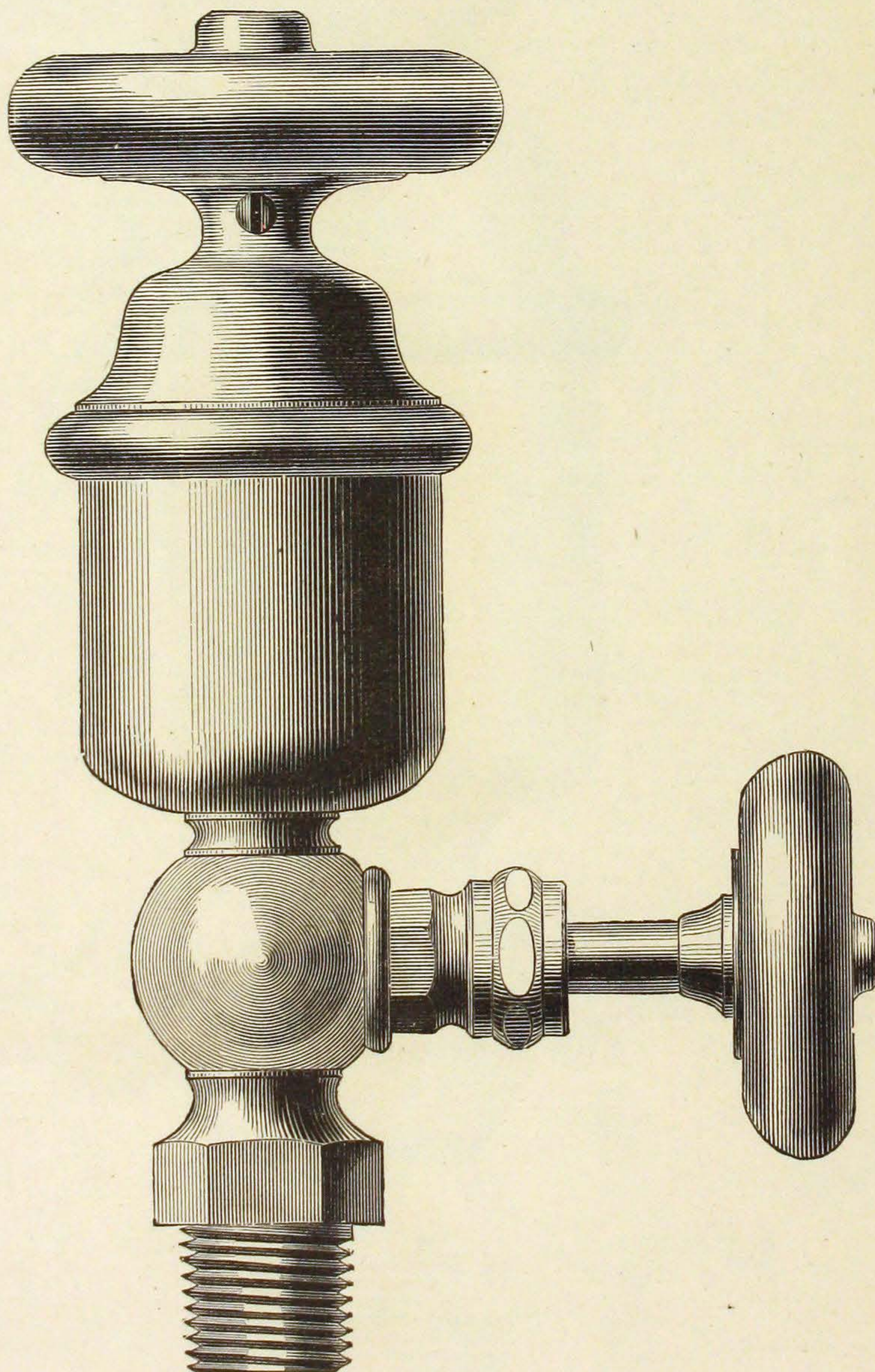
No. 6, not Illustrated.



# EATON LUBRICATOR.

FULL SIZE.

Fig. 218.



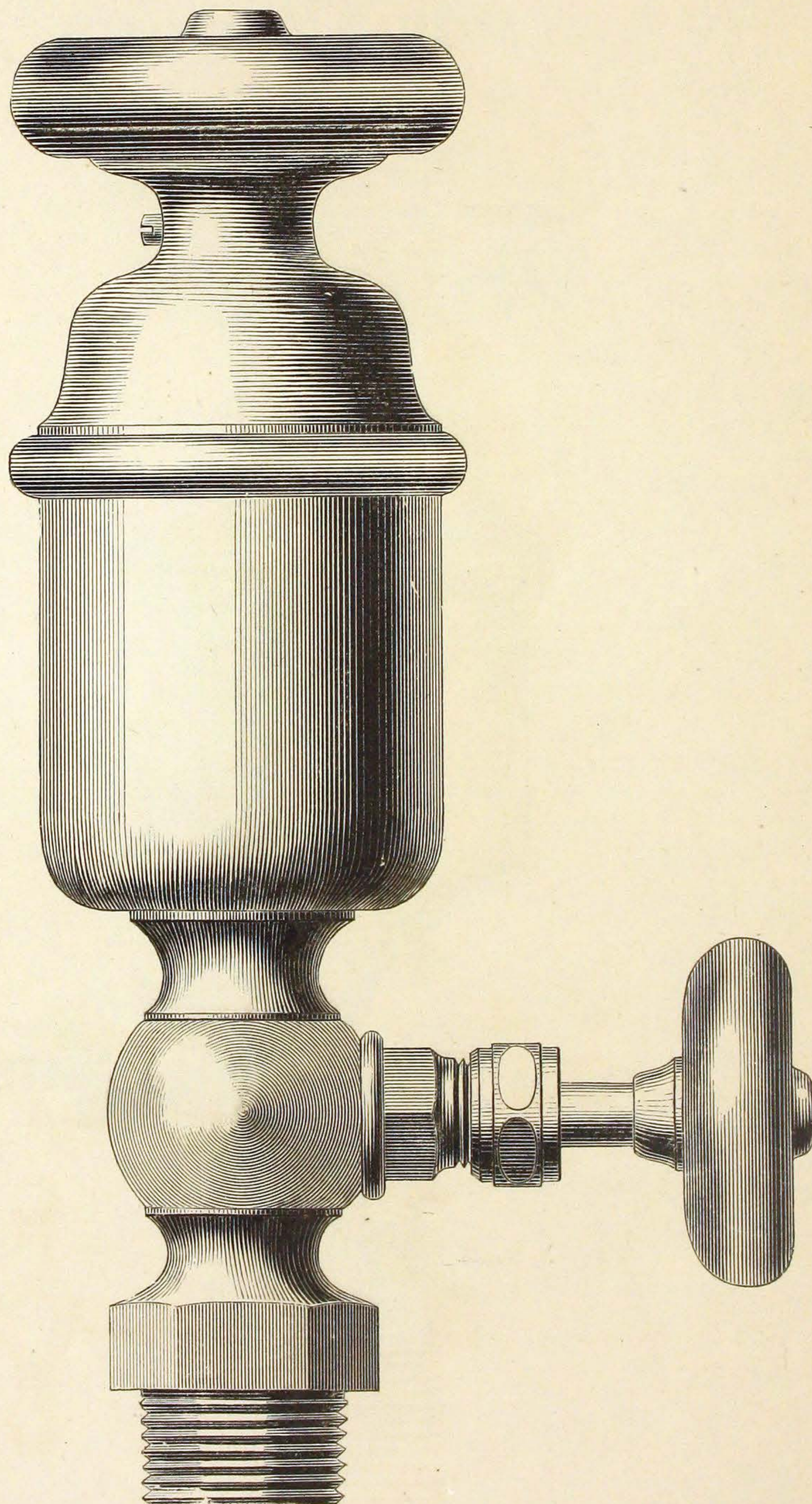
1½ Inch.



## EATON LUBRICATOR.

FULL SIZE.

Fig. 219.



2 Inch.

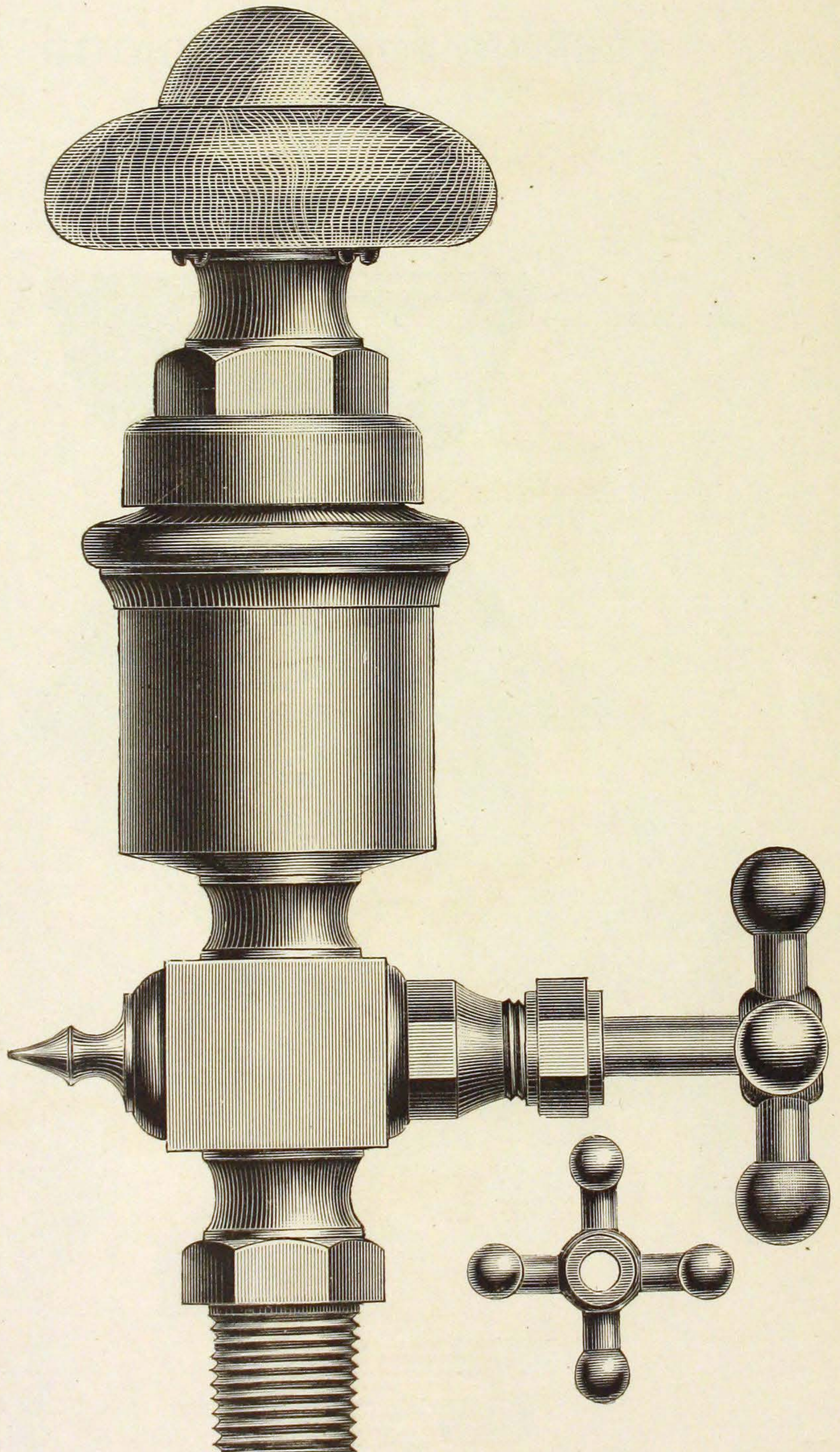
2 1-2 and 3 In. not Illustrated.



# WESTERN LUBRICATOR, Full Size.

59

Fig. 220.



1½ Inch.

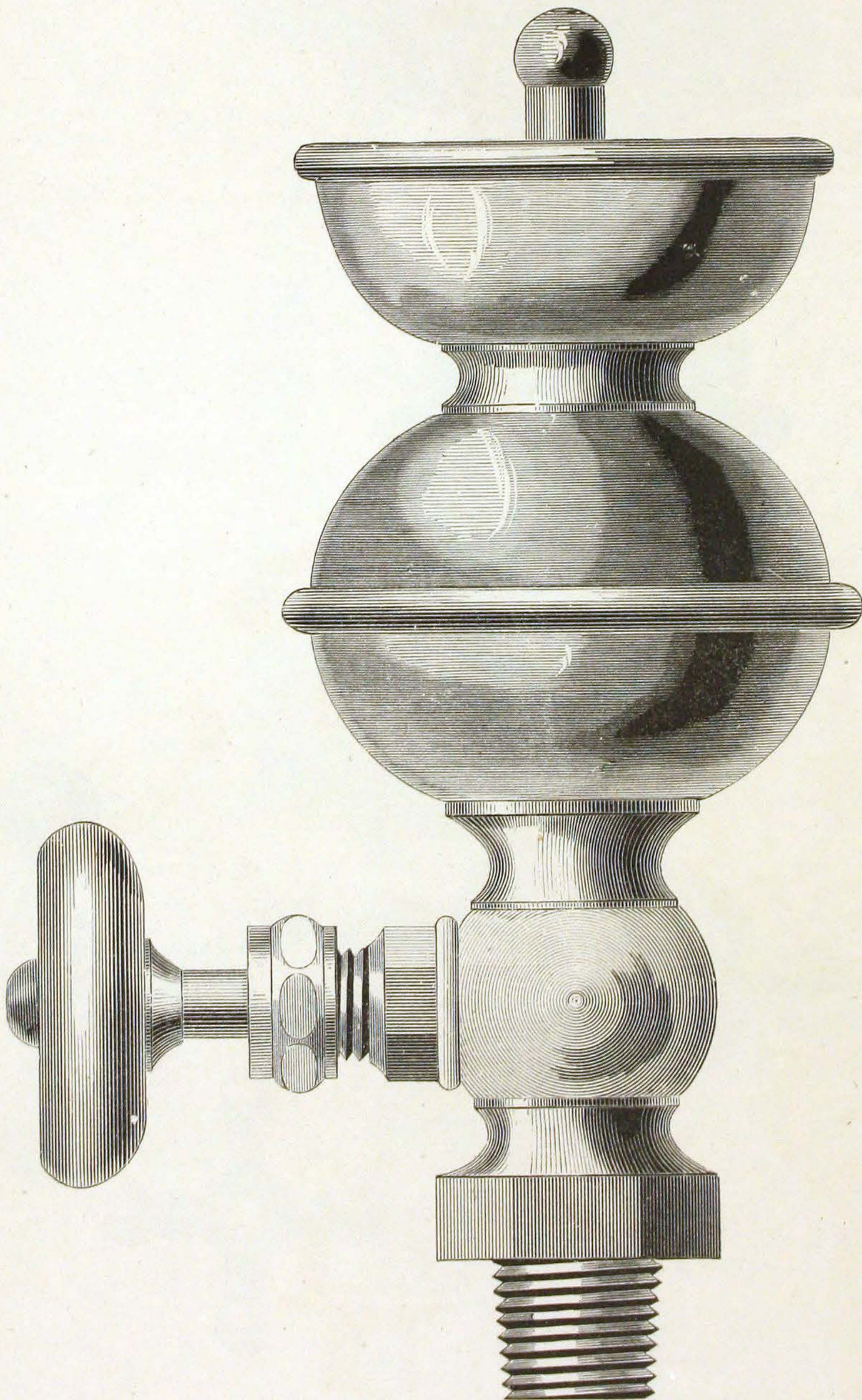
2 In. not Illustrated.



## SPRING TOP LUBRICATOR.

FULL SIZE.

Fig. 221.

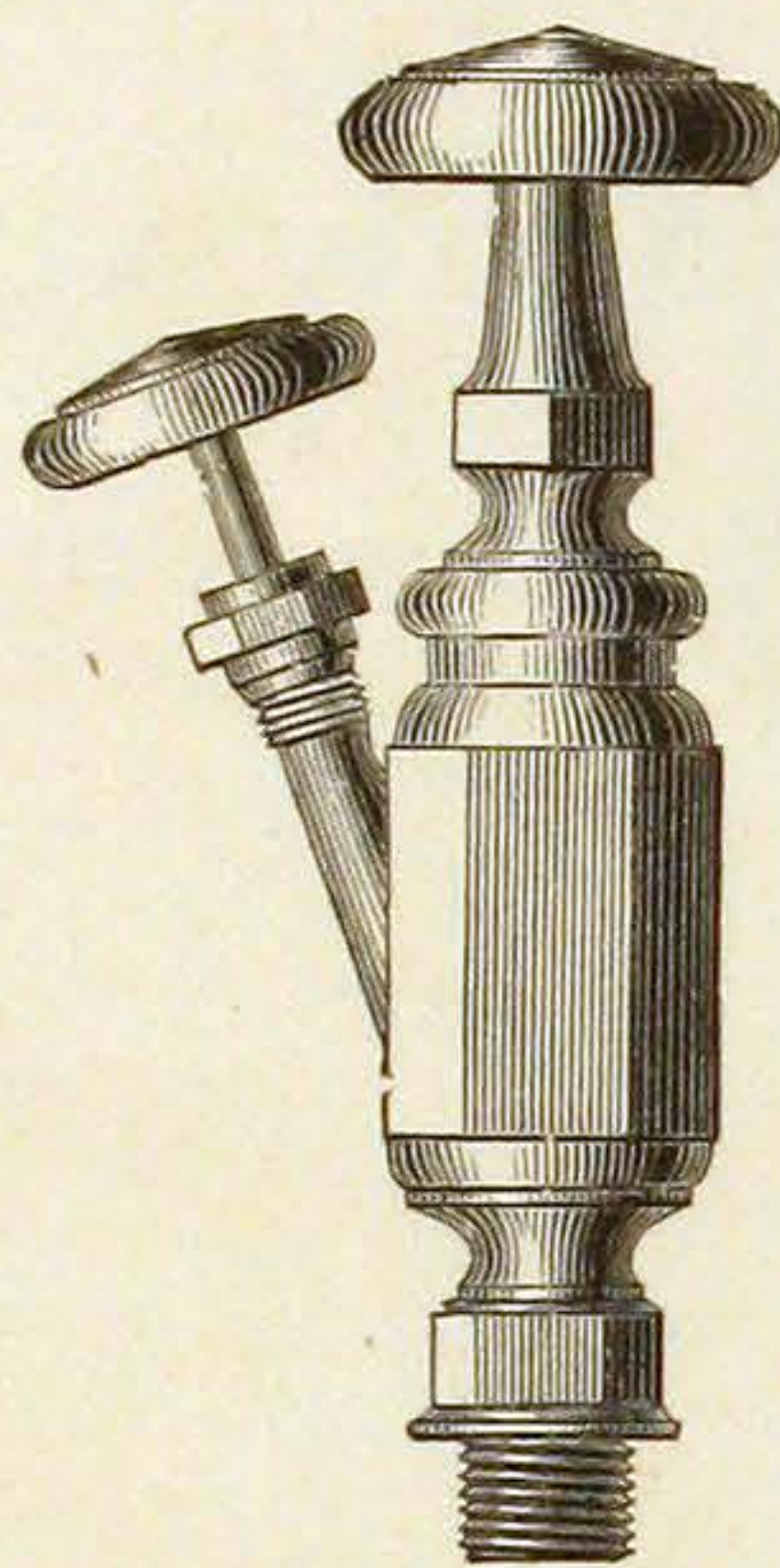


With Brass or Wood Wheel.



## BROUGHTON'S LUBRICATORS.

Fig. 222.



Only one size of Octagon Pattern.

2 Inch Octagon.

## SIZES.

1½ in. Round Pattern.

2 " " "

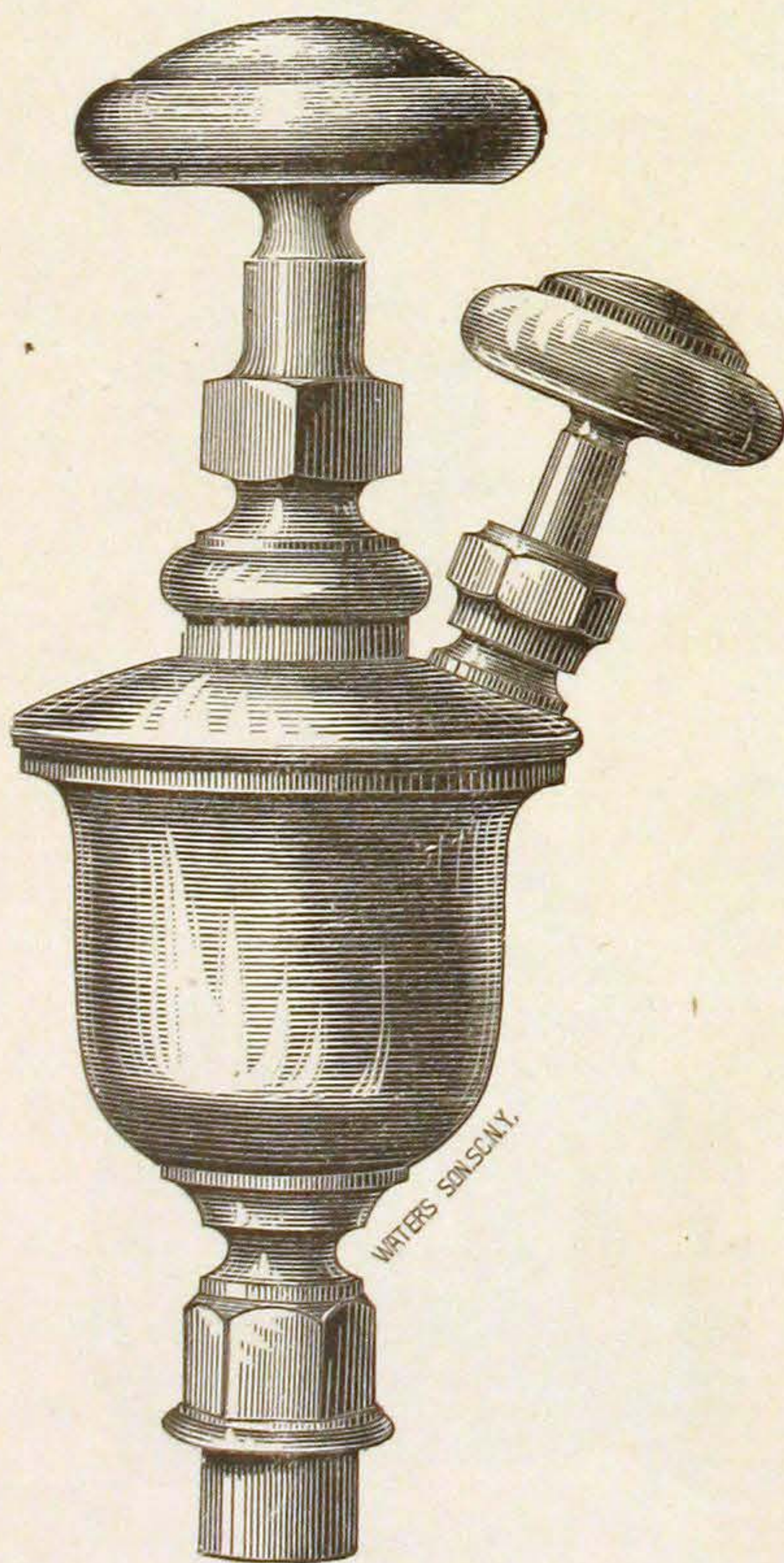
2½ " " "

3 " " "

4 " " "

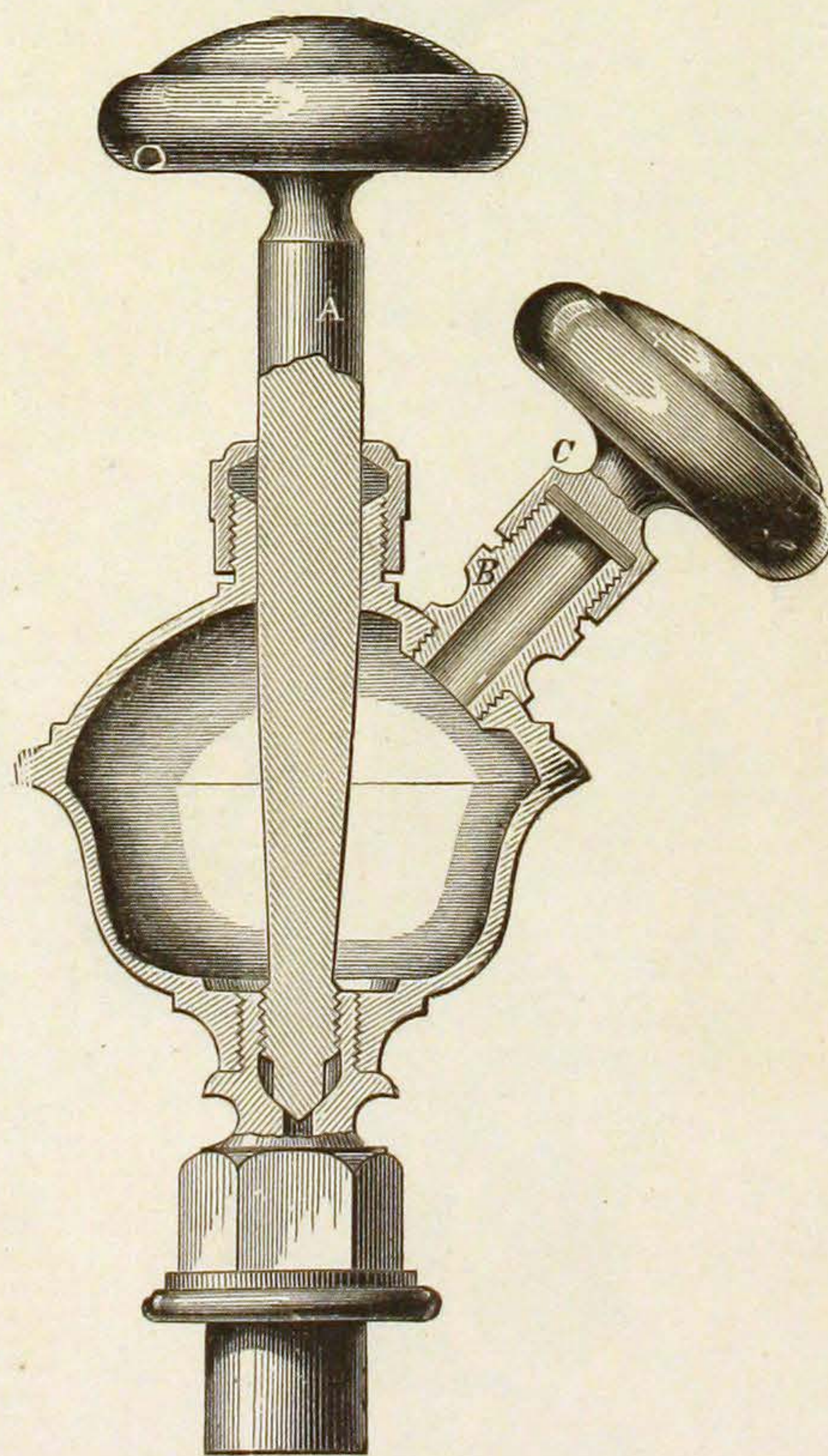
## FULL SIZE.

Fig. 223.



1½ Inch.

Fig. 224.



Showing Inside.

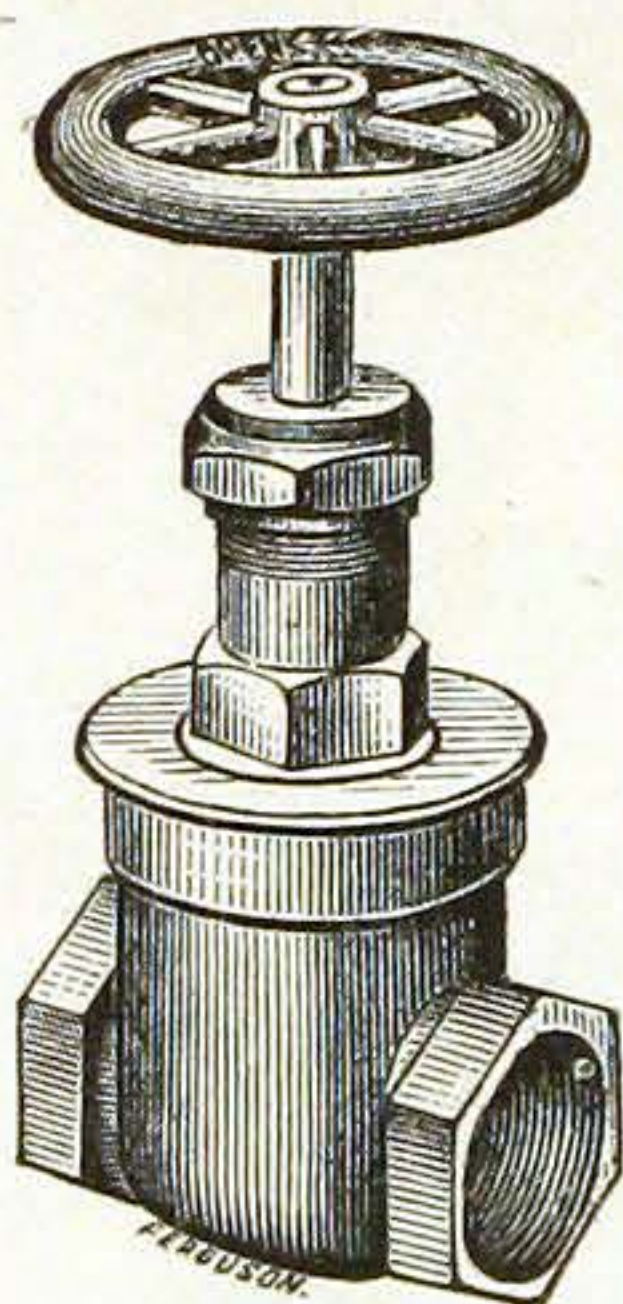


## PATENT GATE VALVES.

PEET'S, LUDLOW'S OR EDDY'S.

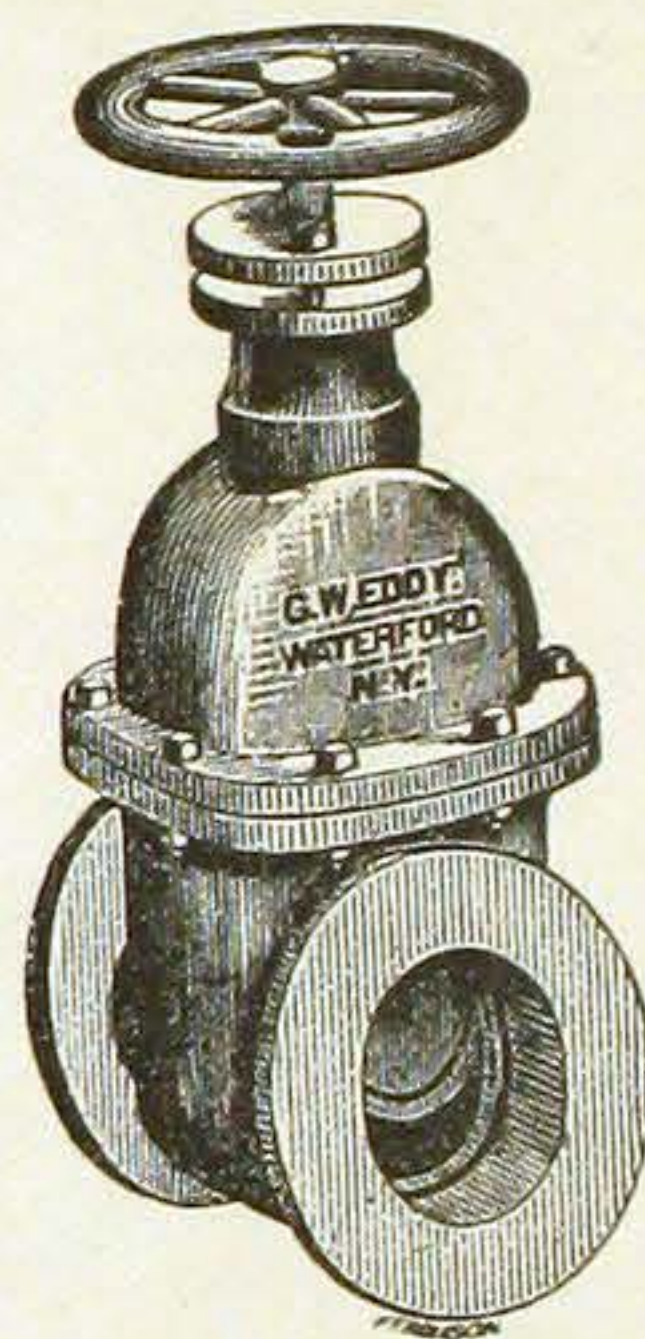
Brass or Iron, Screwed or Flanged Ends.

Fig. 225.



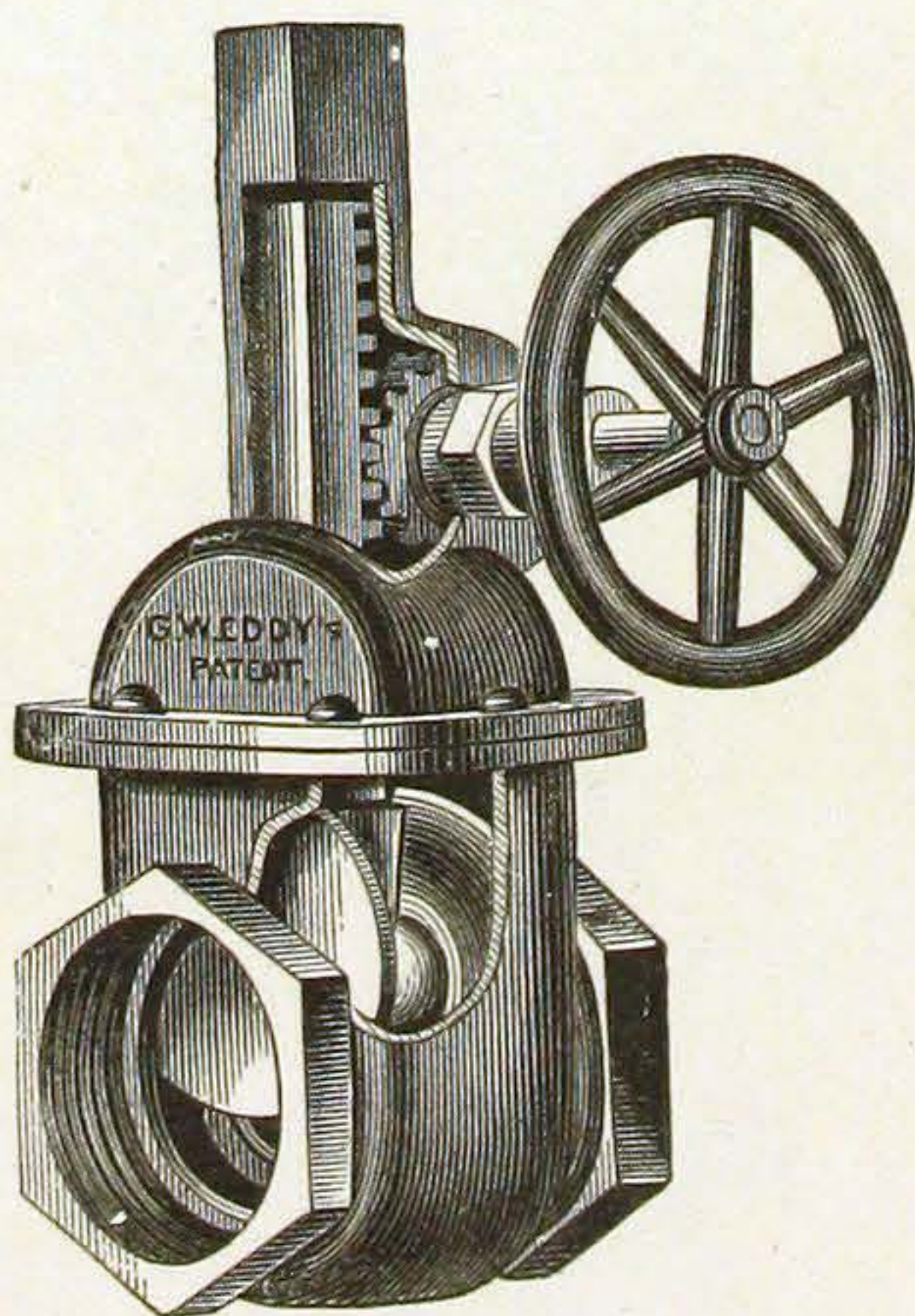
Brass.

Fig. 226.



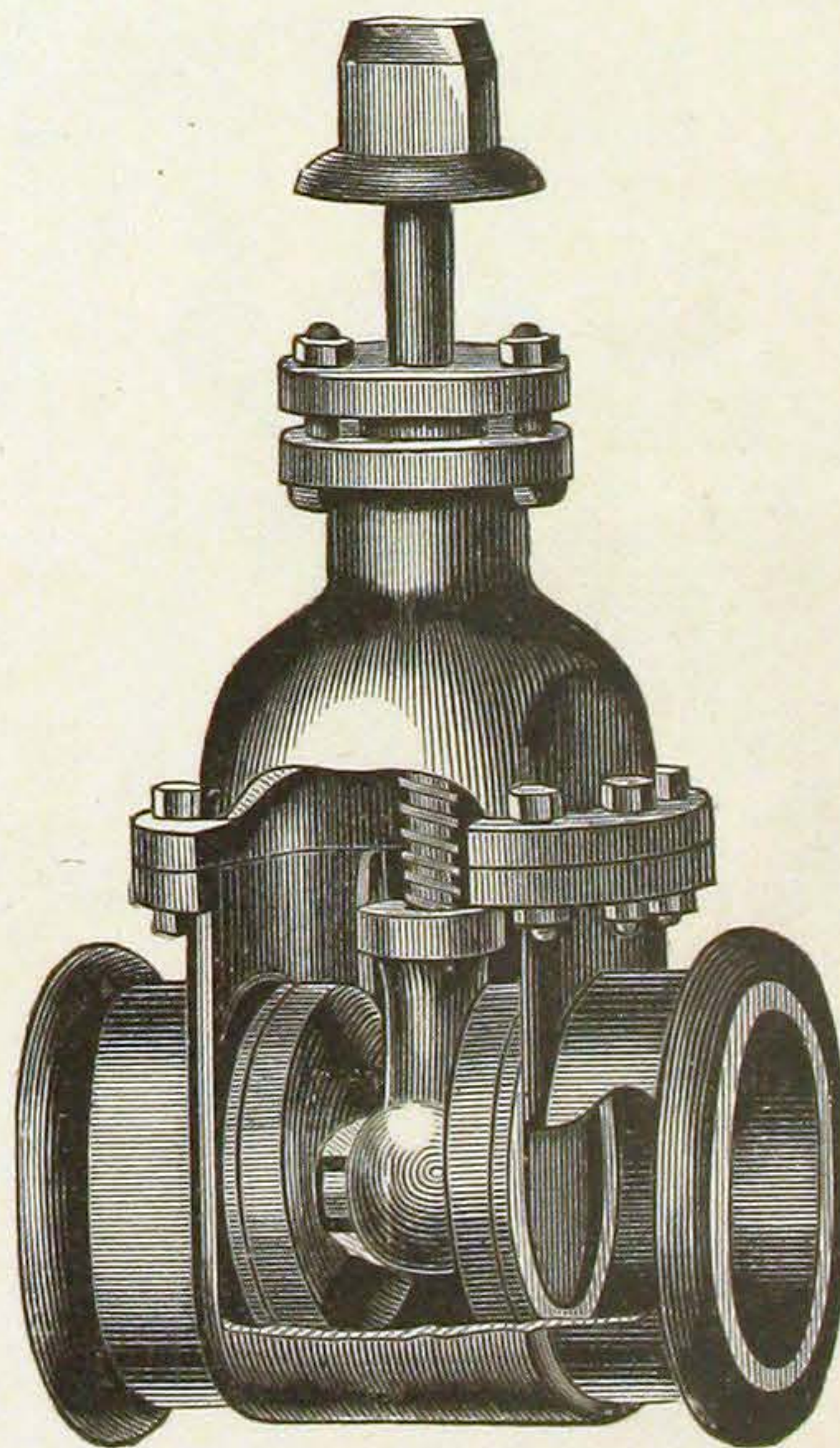
Iron Body.

Fig. 227.



Eddy's Quick Opening.

Fig. 228.



For Street Mains.



# Nathan & Dreyfus Patent Self-Oilers. FOR SHAFTINGS AND CYLINDERS.

Fig. 230.

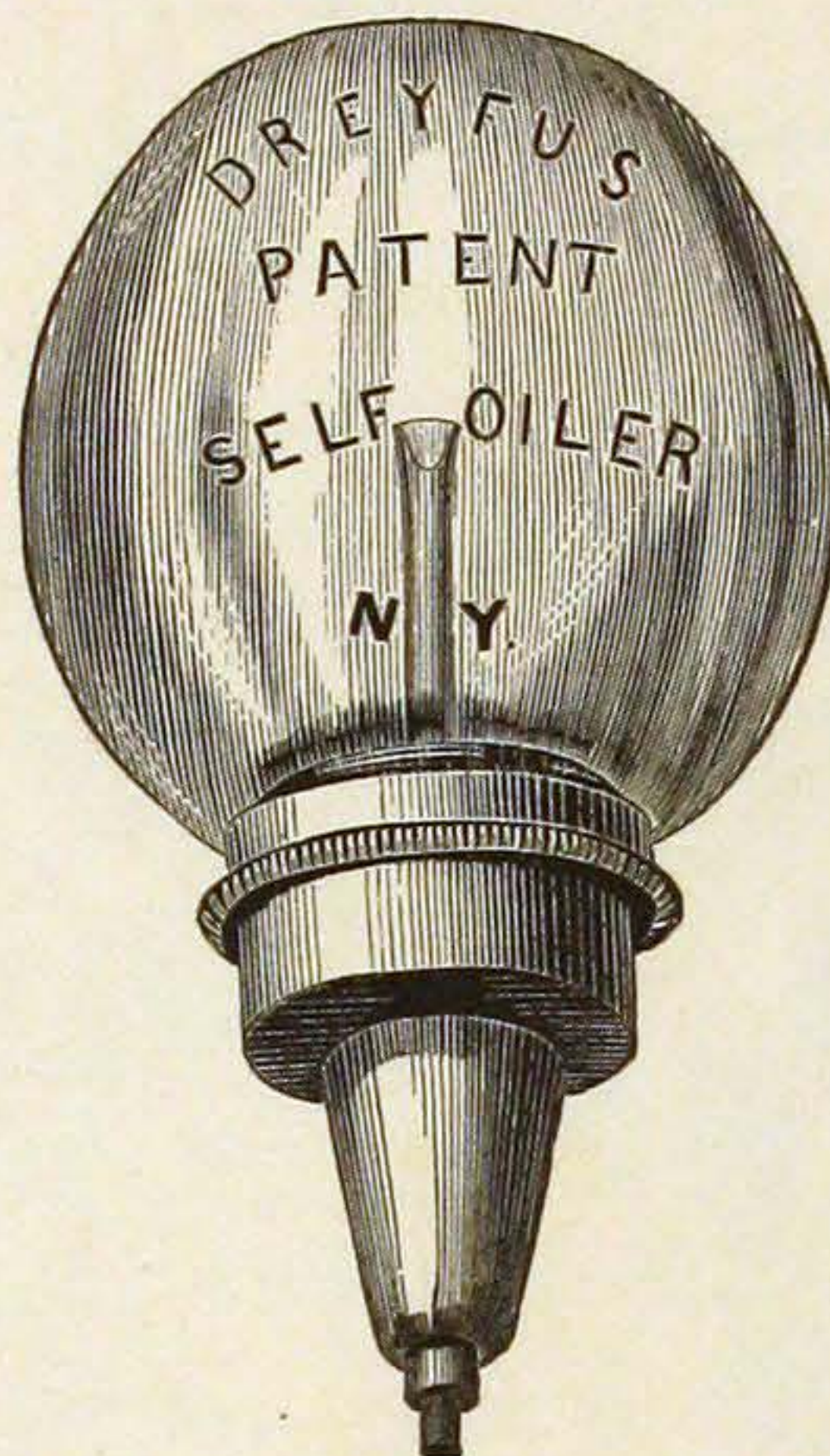
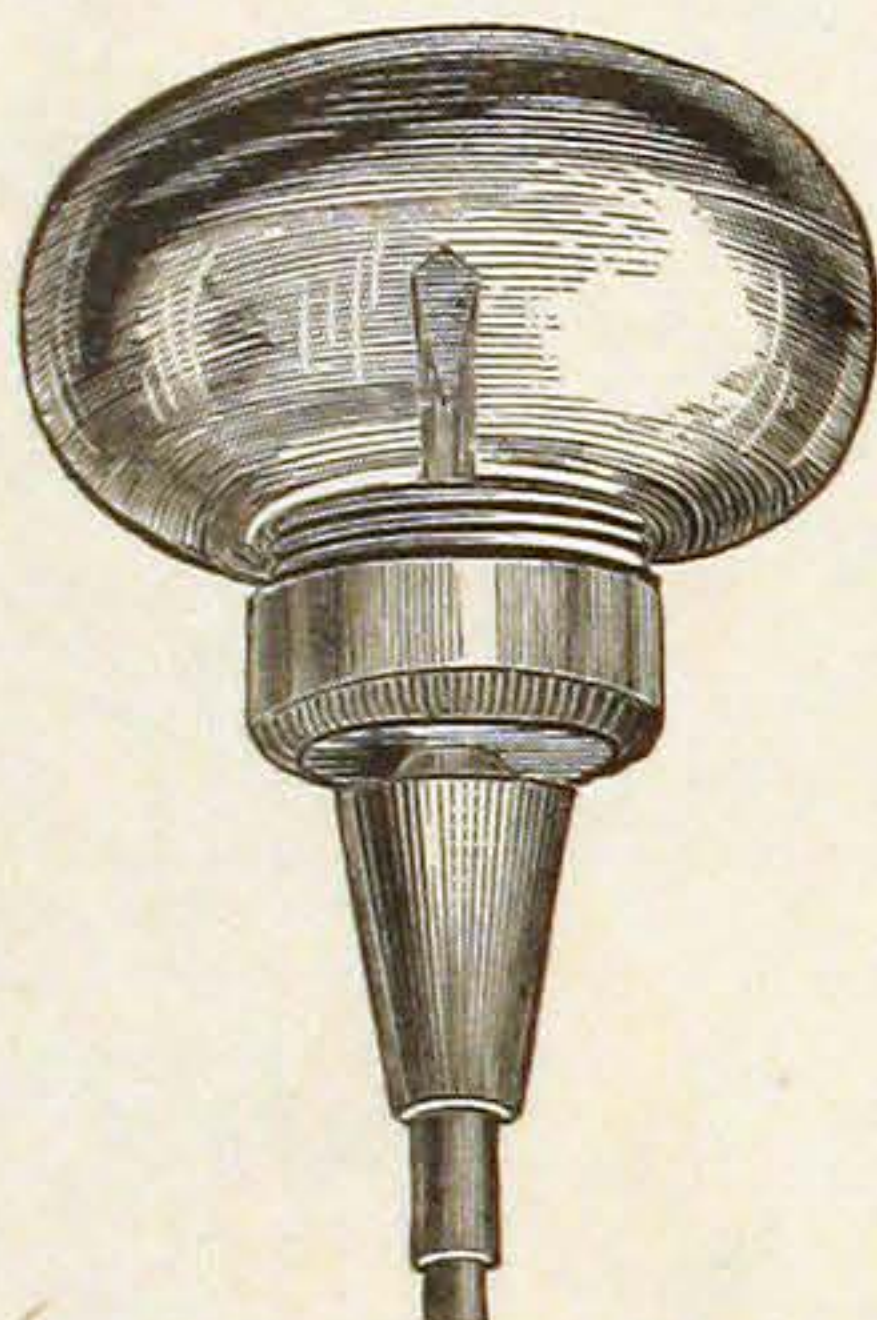


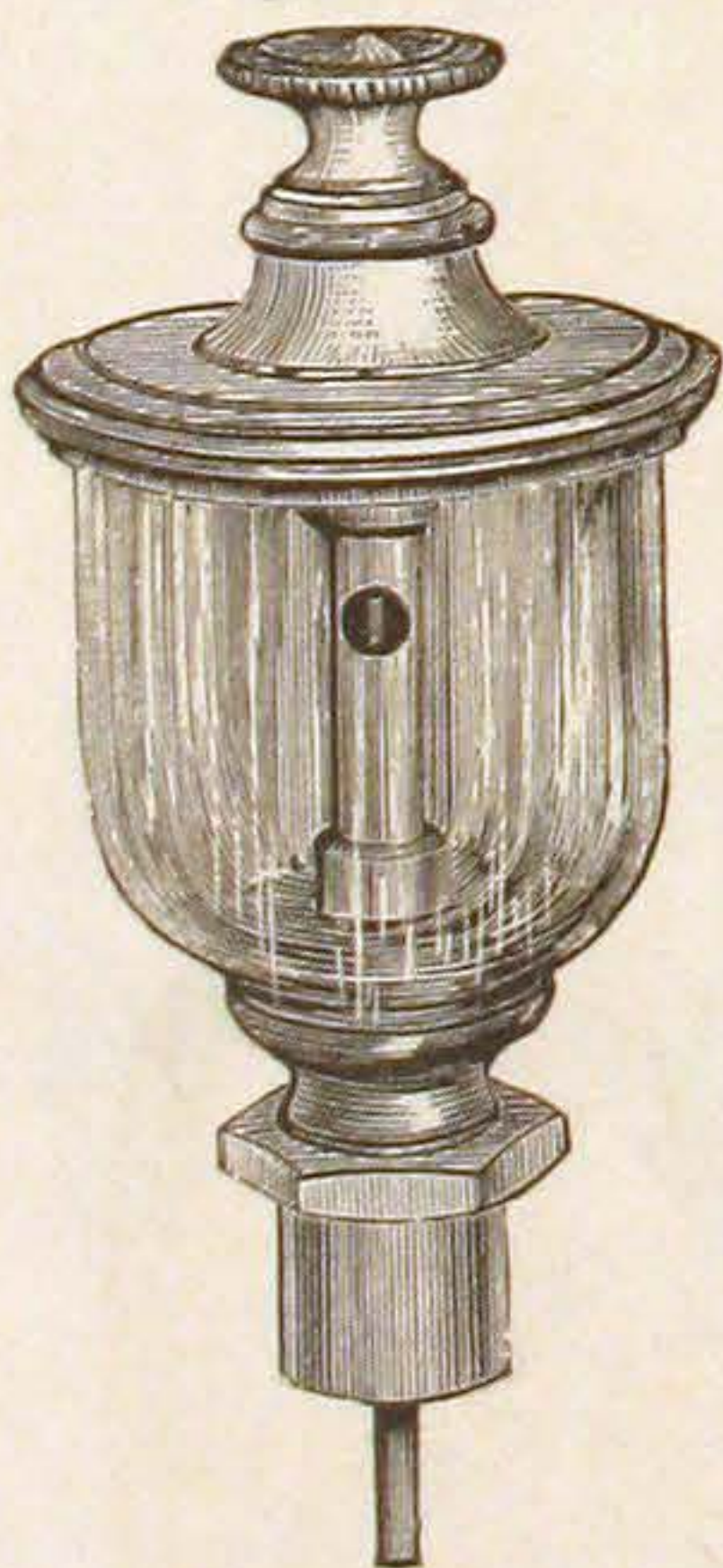
Fig. 229.



No.		Capacity.	Dia.	Height.
0,	For Cards, Lathes, or Small Journals,	1 oz.	2 in.	2½ in.
00,	For Cards, Cylinders, &c.	¾ "	1½ "	2½ "
3,	For Cards, Cylinders, &c. to fill from top,	¾ "	1½ "	2½ "
9,	For Shaftings, Fans, &c.	1½ "	2½ "	3½ "
9, W. B.	For Compact Shaftings, &c.	1½ "	1½ "	3½ "
10,	For Shaftings, Fans, &c.	3½ "	2½ "	4½ "
10, W. B.	For Compact Shaftings, &c.	3 "	2 "	4½ "
11,	For Shaftings, &c. to screw in,	1½ "	2½ "	3½ "
12,	" " " " " "	3½ "	2½ "	4½ "
13,	" " " " " fill from top,	1½ "	2½ "	3½ "
13, W. B.	" " " " " " " "	1½ "	1½ "	3½ "
14,	" " " " " " " "	3½ "	2½ "	4½ "
15,	For Engines, &c. " " " "	3½ "	2½ "	4½ "
22,	For Small Engines, Lathes, &c.	3½ "	1½ "	2½ "
24,	For Engines,	2½ "	2½ "	3½ "
25,	For Heavy Bearings,	8 "	3 "	4½ "

## Engine Cups.

Fig. 231.

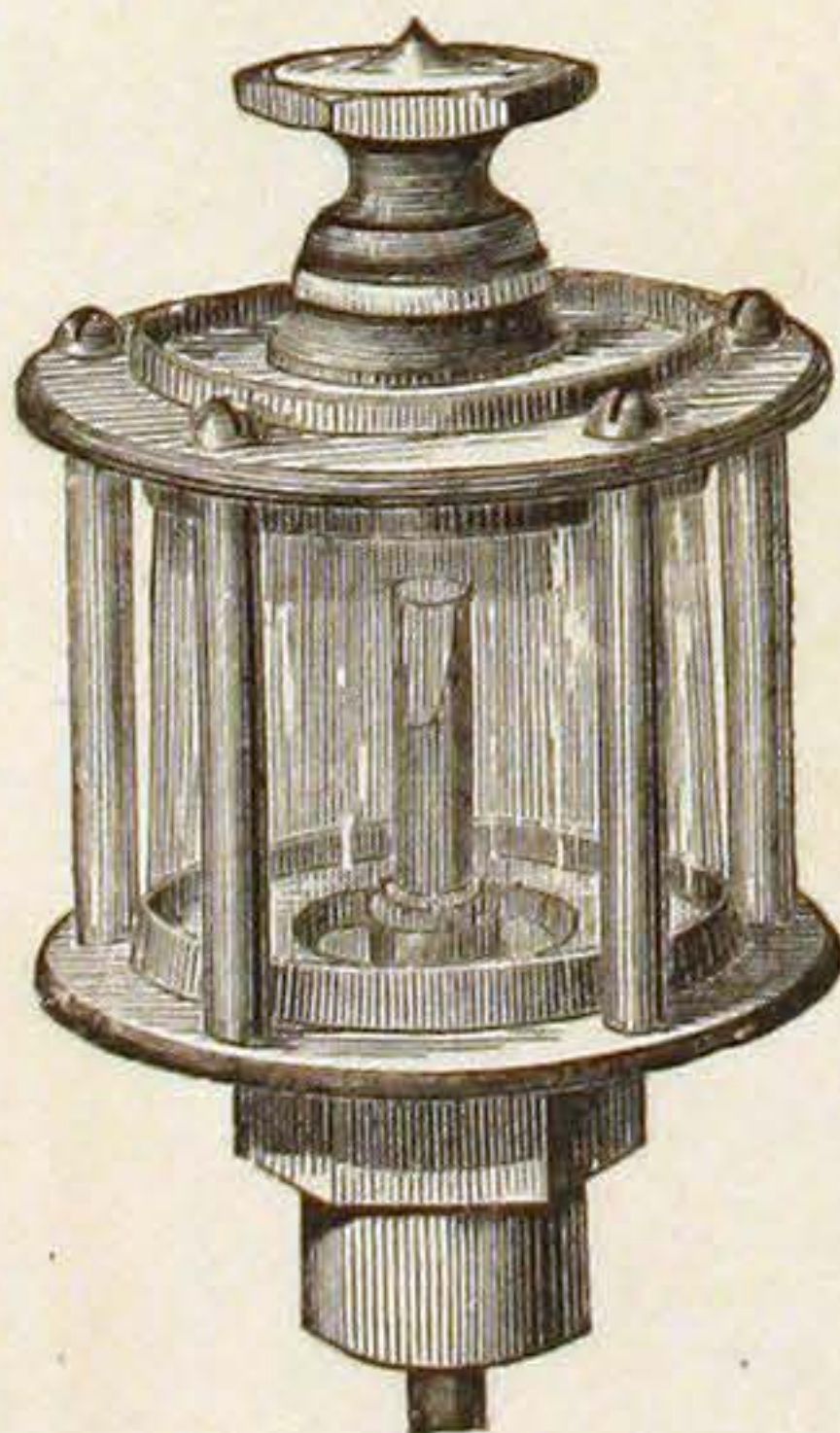


A.

- A, ¾ oz. 1½ x 2½.
- B, 1½ oz. 2½ x 3½.
- C, 3 oz. 2½ x 4½.
- D, 8 oz. 3½ x 5½.

## Engine Cups.

Fig. 232.

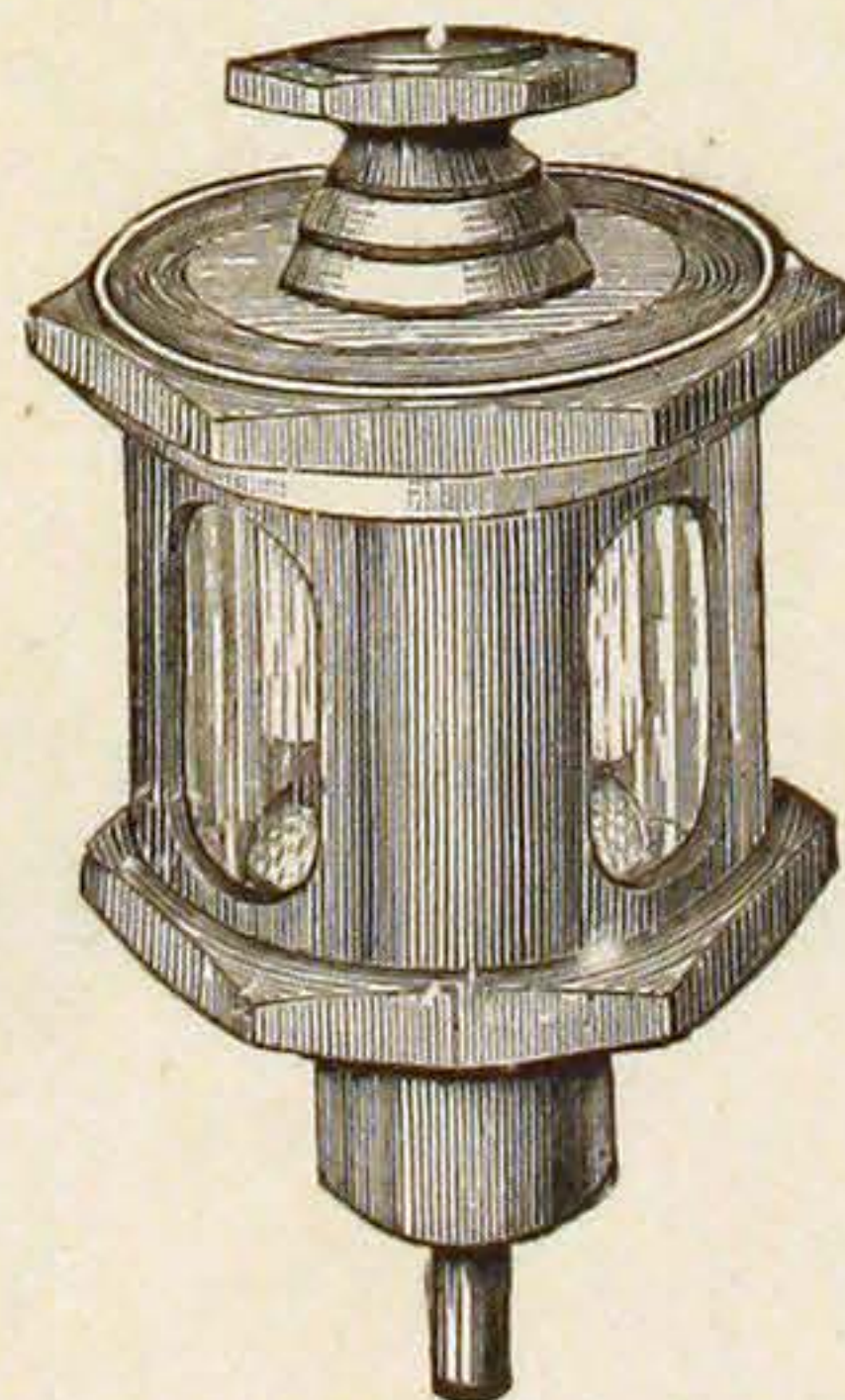


No. 60.

- No. 20, 1/8 oz. 1 x 1½.
- No. 21, 1/8 oz. 1½ x 2½.
- No. 28, 1/4 oz. 1½ x 2½.
- No. 36, 1 oz. 2 x 3½.
- No. 42, 1½ oz. 2 x 4.

## Locomotive Cups.

Fig. 233.



No. 42.

- No. 28, 1/4 oz. 1½ x 2½.
- No. 36, 1 oz. 2 x 3½.
- No. 42, 1½ oz. 2 x 4.
- No. 43, 1½ oz. 2 x 4.



## LUBRICATORS AND OILER.

### NATHAN AND DREYFUS LUBRICATORS.

Fig. 236.

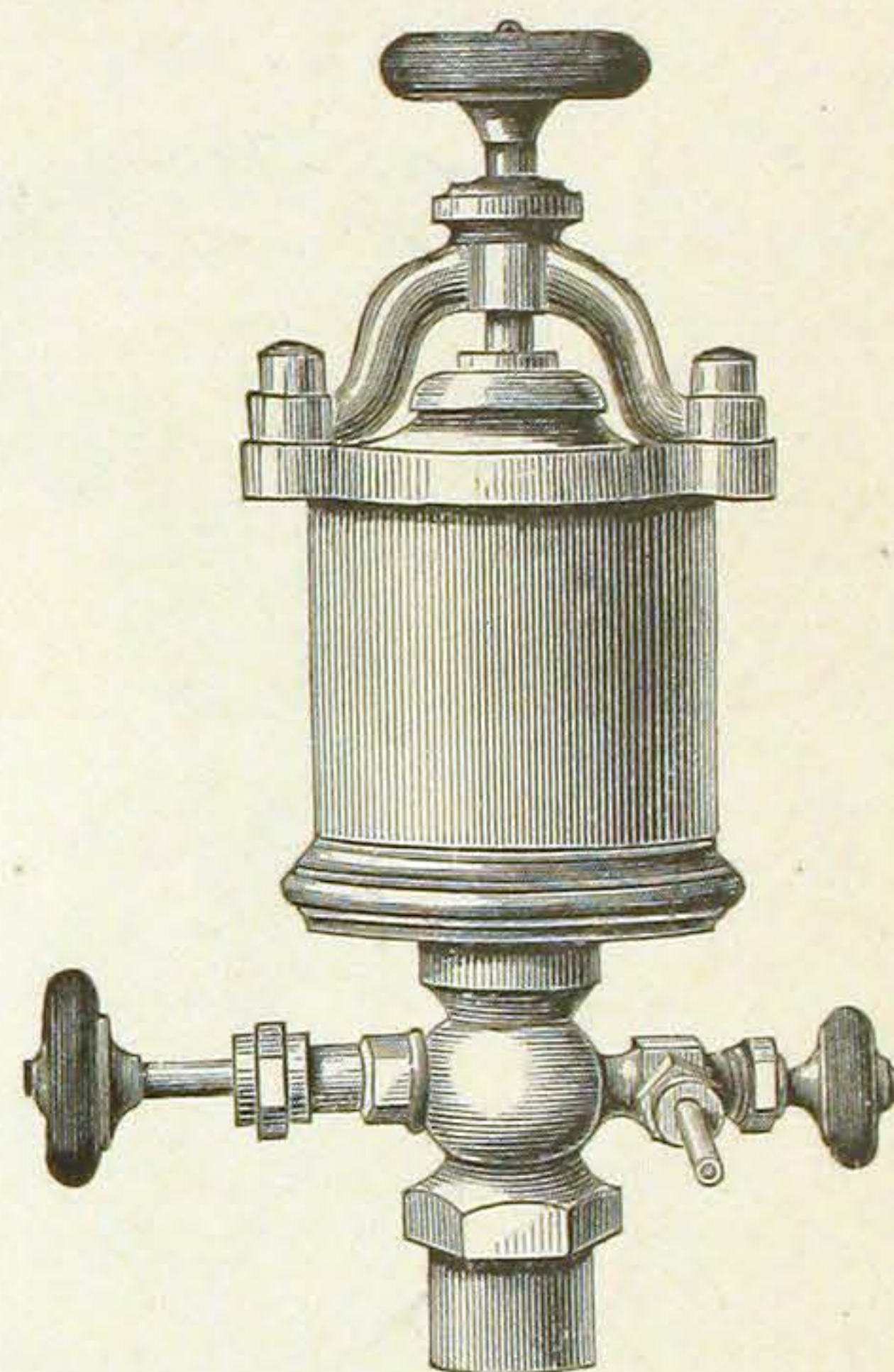
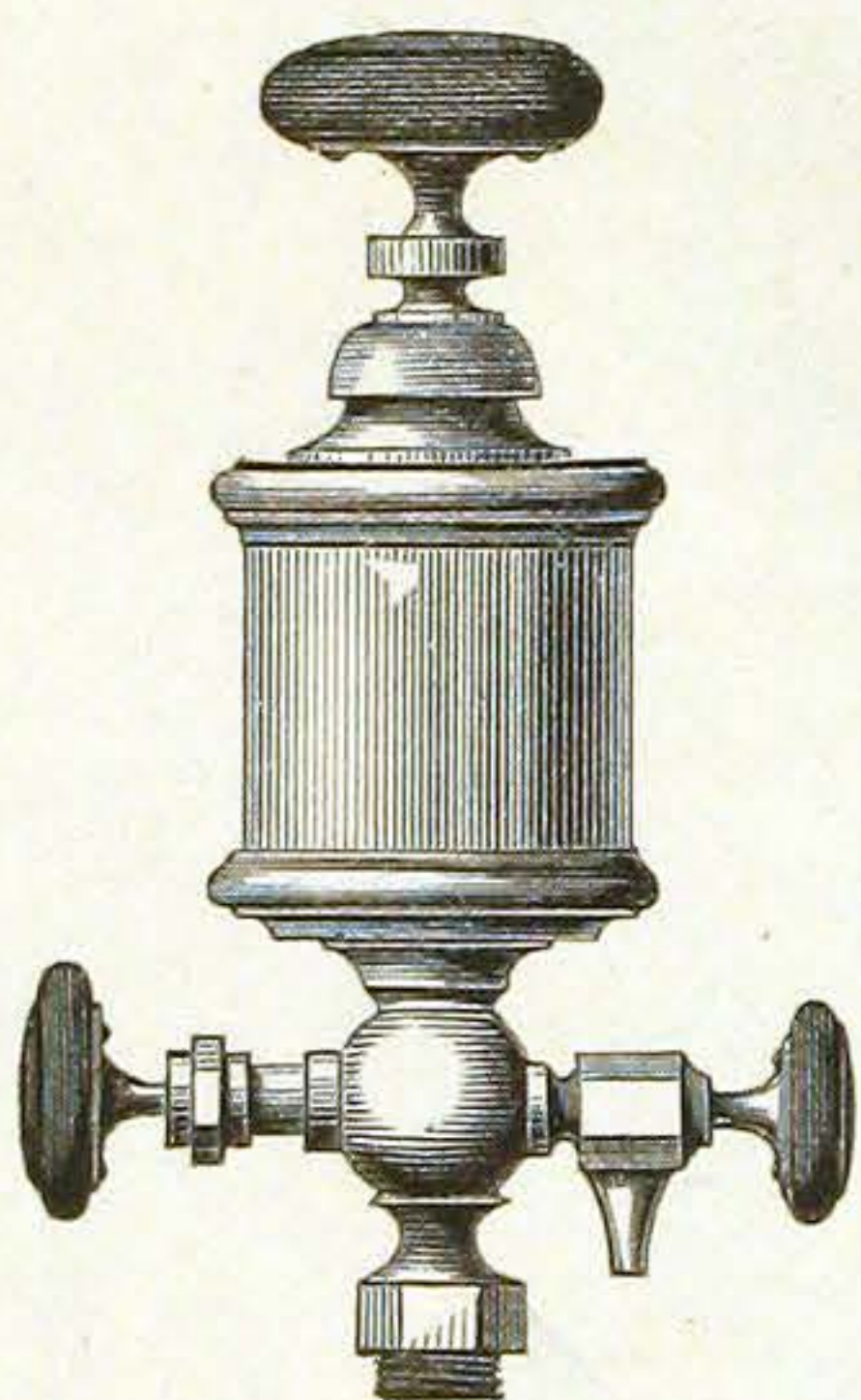
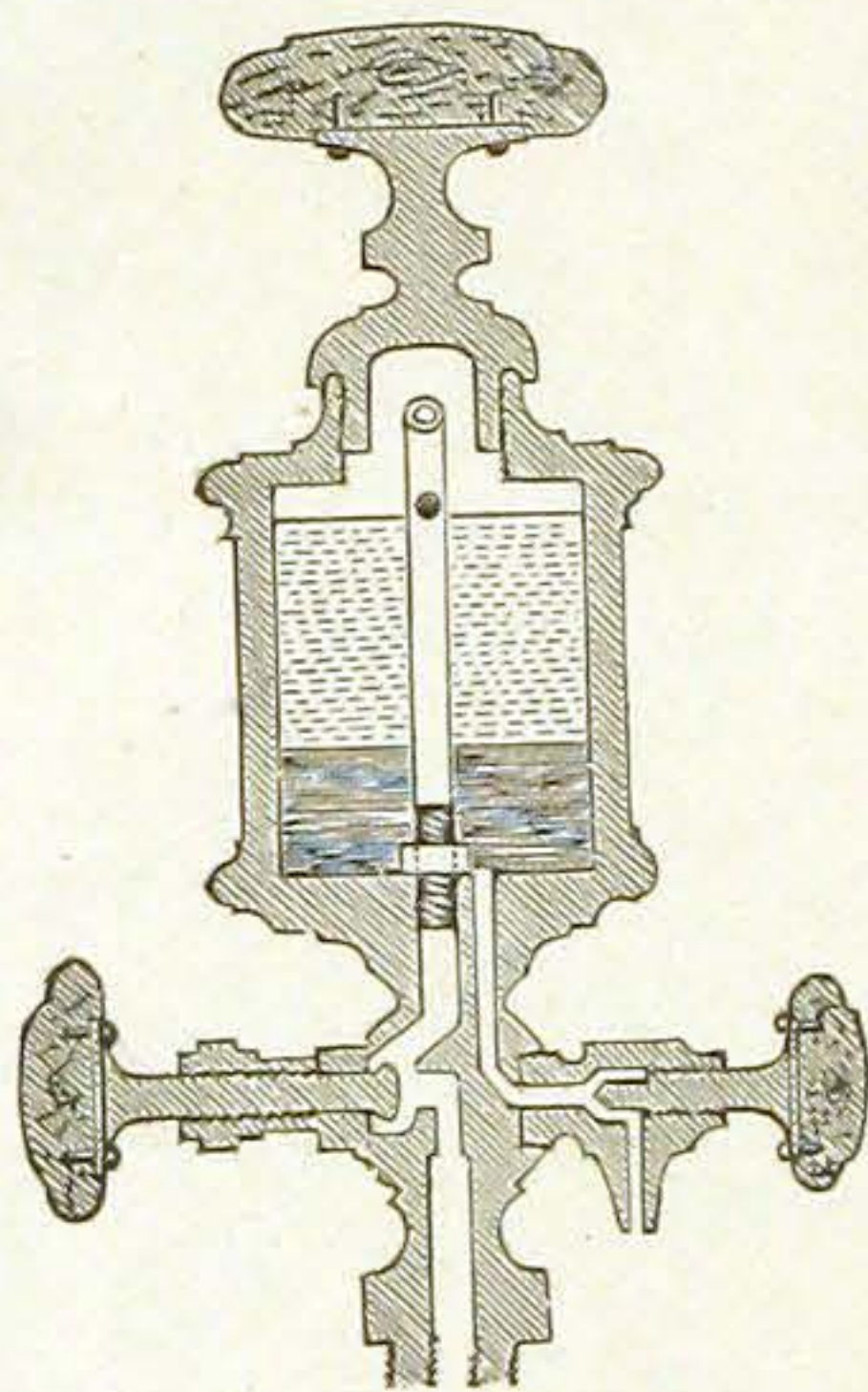


Fig. 234.



Sizes, plain,  
 Sizes, with Yoke,

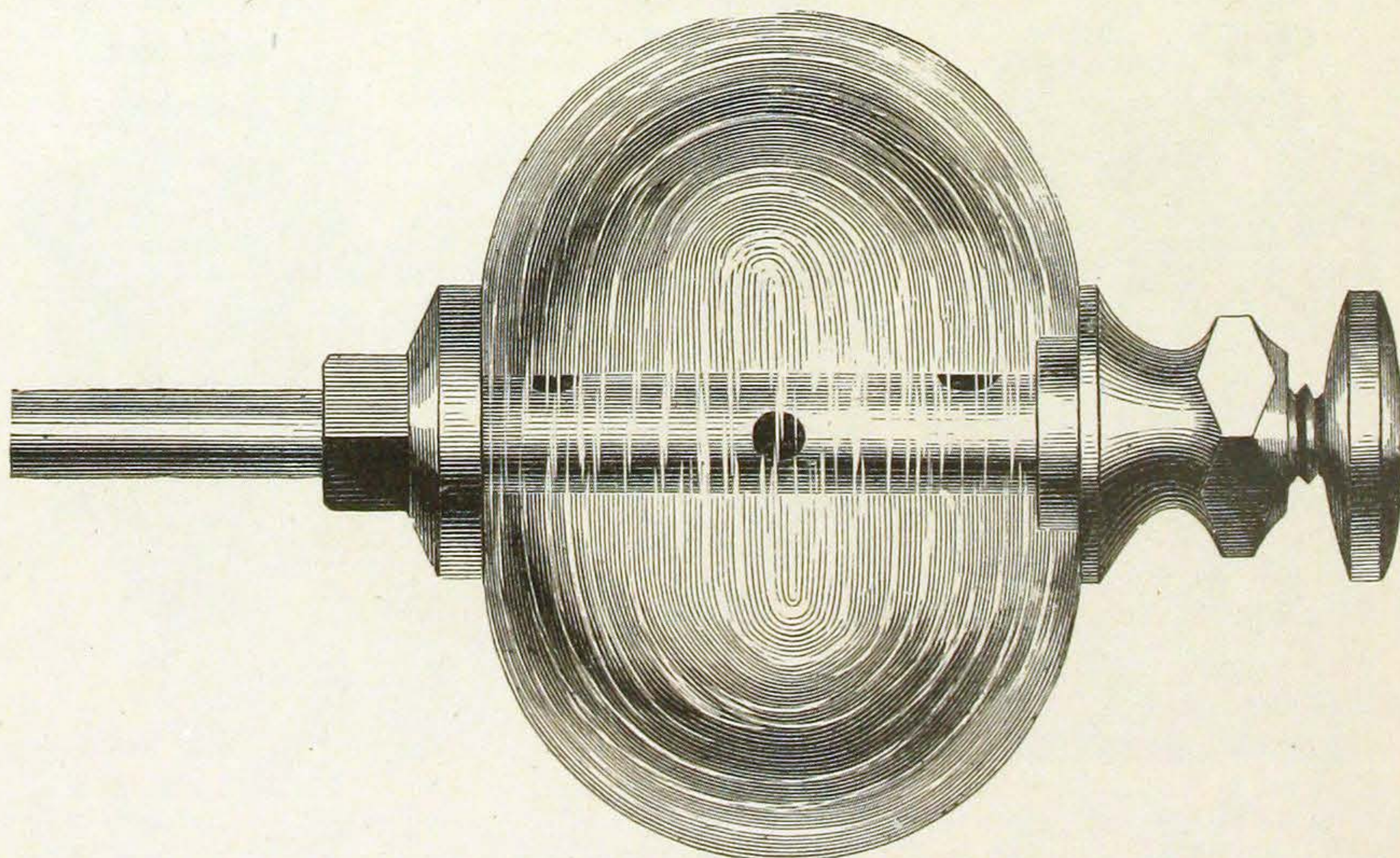
Fig. 235.



1 in.	1½ in.	2 in.	2½ in.	3 in.	4 in.
3 "	4 "	5 "	6 "	7 "	

## BROUGHTON'S TRANSPARENT SHAFTING OILER.

Fig. 237.



Nos. 1, 2 and 3.

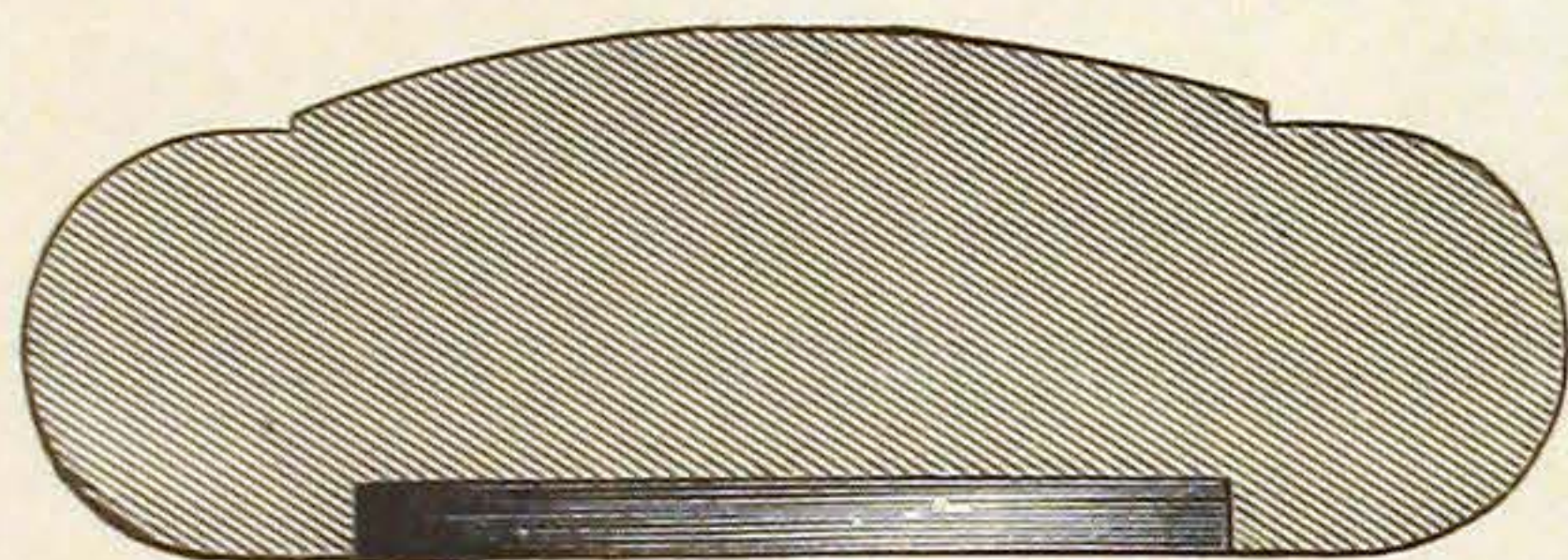


# WOOD WHEELS.

## FOR VALVES, WATER GAUGES, &c.

FULL SIZES, SECTIONAL VIEWS.

**Fig. 238.**

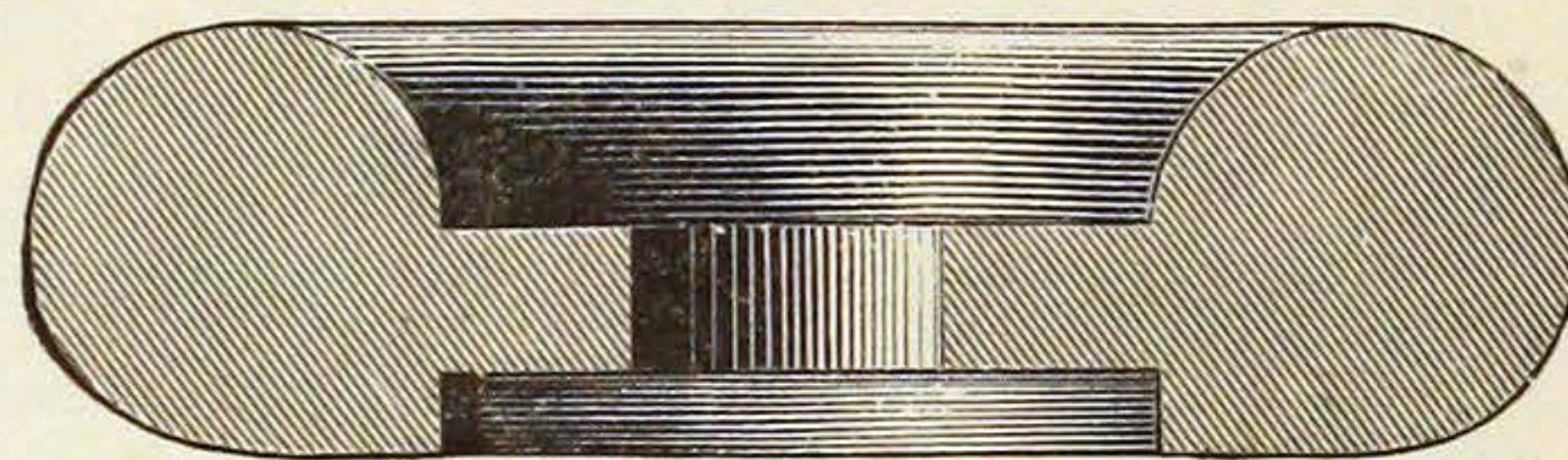


No. 5.

Mahogany.

No.	1	2	3	4	5	6
Dia.	$1\frac{5}{8}$	$1\frac{3}{4}$	$1\frac{7}{8}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$

**Fig. 239.**



No. 12, for Brass Plate.

Black Walnut.

No.	10	11	12	13
Dia.	$1\frac{7}{8}$	$2\frac{1}{8}$	$2\frac{1}{2}$	$2\frac{3}{4}$

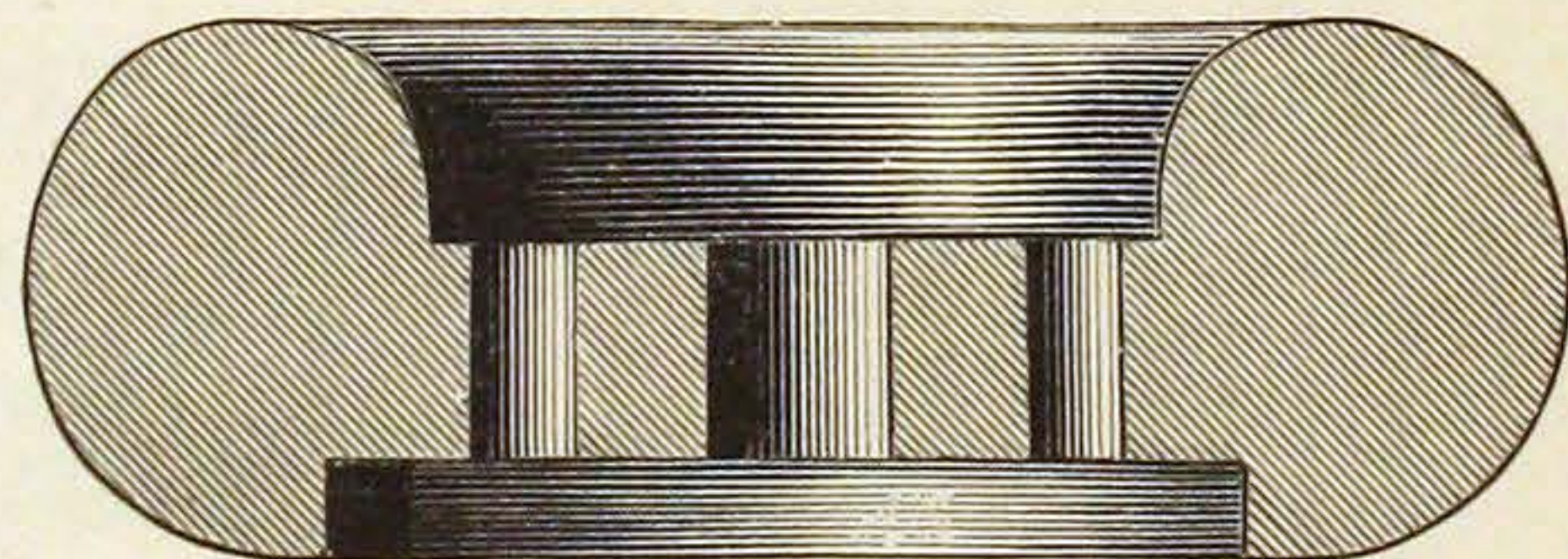
**Fig. 240.**



No. 22.

No.	21	22
Dia.	$2\frac{7}{16}$	$2\frac{11}{16}$

**Fig. 241.**

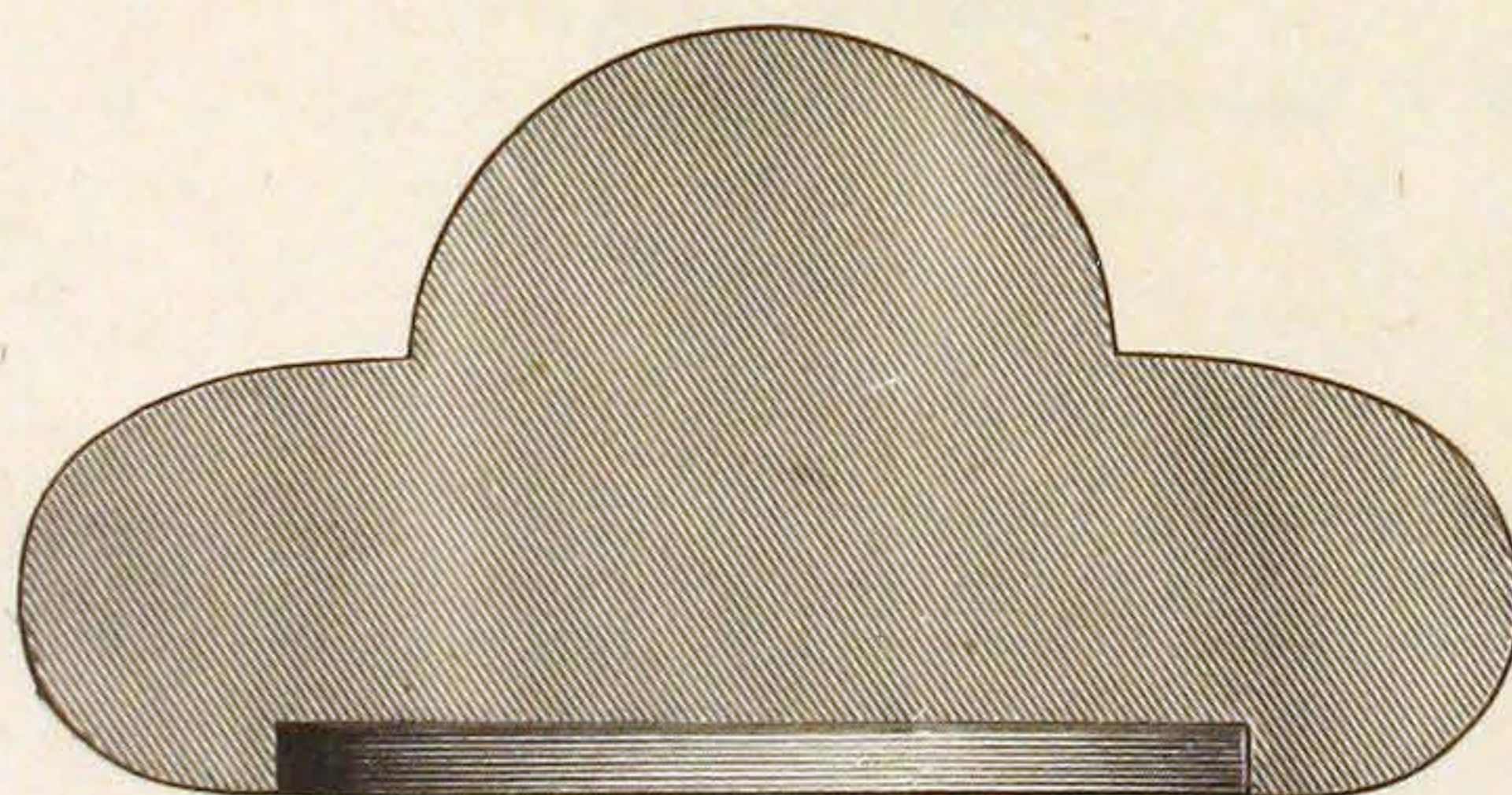


For Brass Plate and Guides.

Black Walnut.

No.	23	24
Dia.	$2\frac{5}{16}$	$2\frac{3}{4}$

**Fig. 242.**

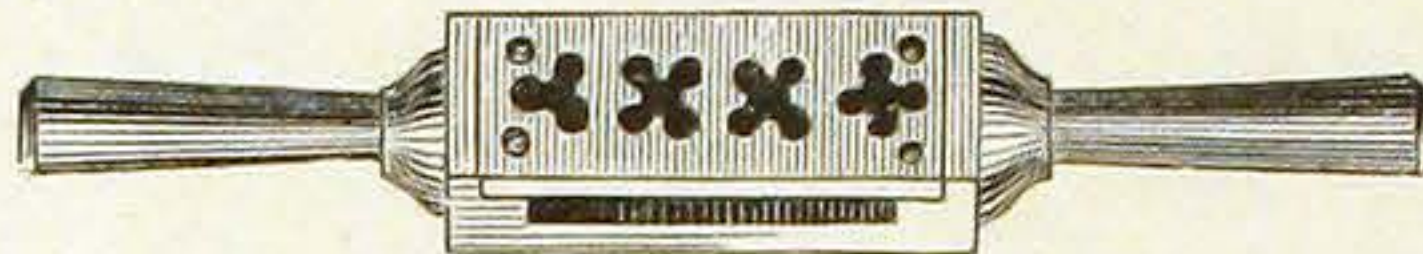
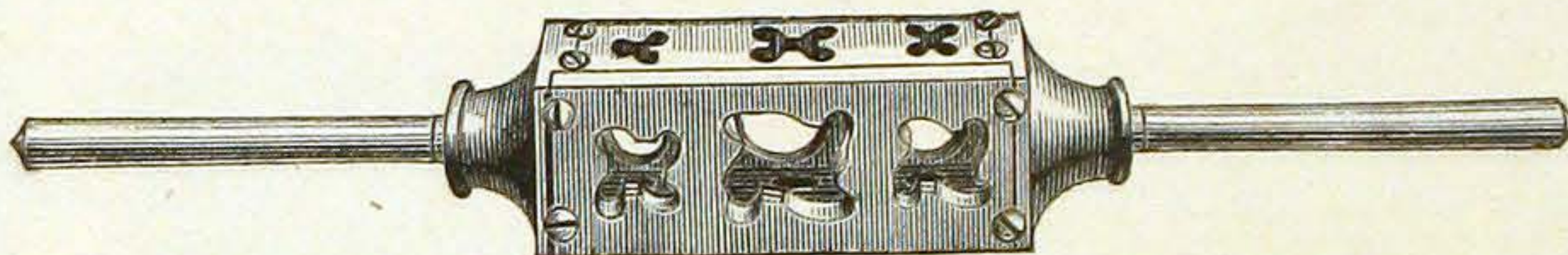


No. 26.

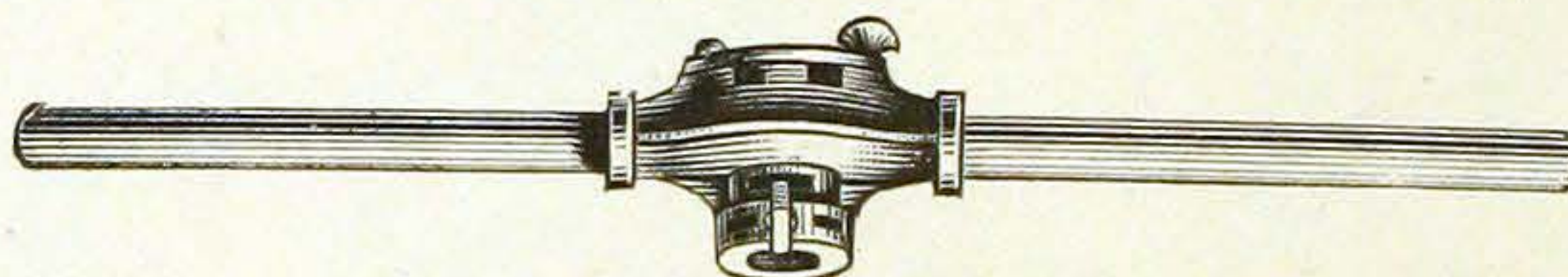
No.	26	27
Dia.	$2\frac{5}{8}$	3 in.



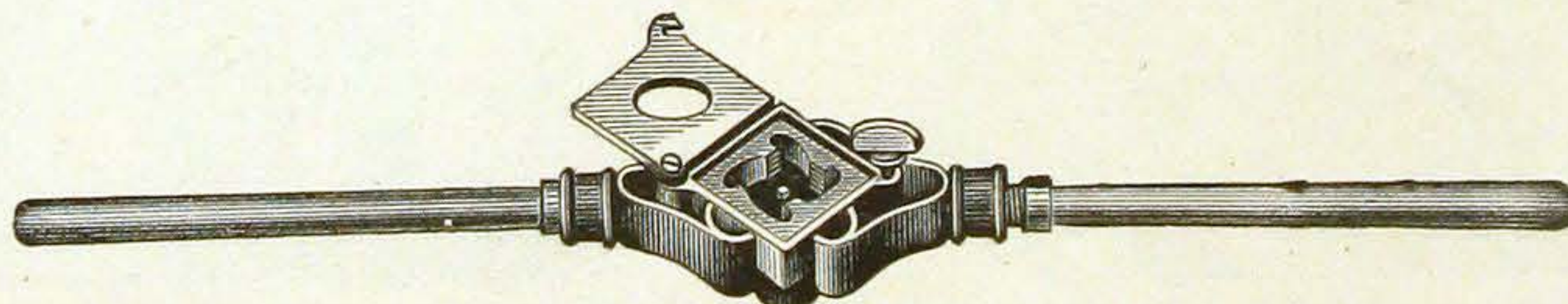
## STOCKS AND DIES.

**Fig. 243.****Fig. 243½.**

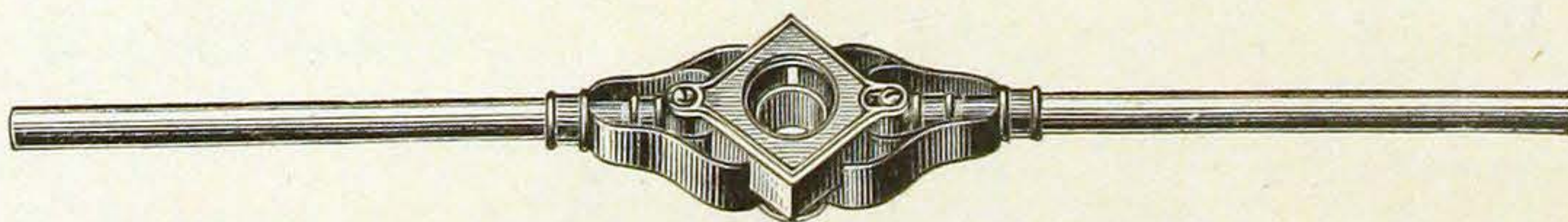
No. 0, Solid Stock and Dies, Threads  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$  and  $\frac{1}{2}$  in. Pipe.  
 No. 00, " " " " "  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$  and 1 in. Pipe.

**Fig. 244.**

No. 1, Malleable Stock, Threads  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$  and 1 in. Pipe.  
 No. 2, " " " "  $\frac{3}{4}$ , 1 and  $1\frac{1}{4}$  in. Pipe.

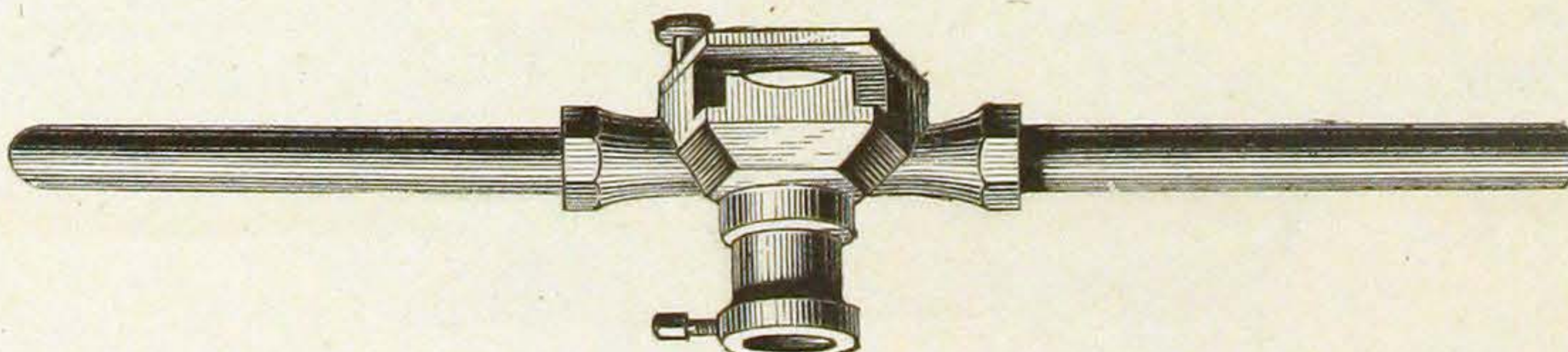
**Fig. 245.**

No. 1, Old Style (Dies, 3 in. square), Threads  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$  and 1 in. Pipe.

**Fig. 246.**

With Driving Screw.

No. 3, Malleable Stock, Threads  $1\frac{1}{4}$ ,  $1\frac{1}{2}$  and 2 in. Pipe.

**Fig. 247.**

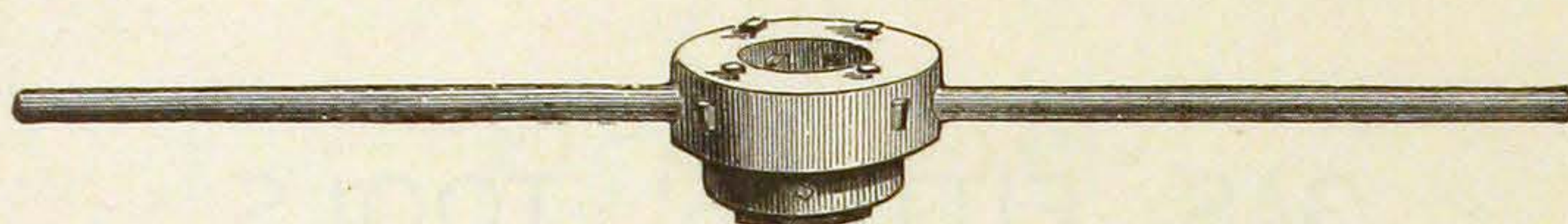
No. 3, Cast Iron Stock, Threads  $1\frac{1}{4}$ ,  $1\frac{1}{2}$  and 2 in. Pipe.

No. 4, Malleable Iron Stock, Threads  $2\frac{1}{2}$  and 3 in. Pipe.  
 " " " " with 4 arms.



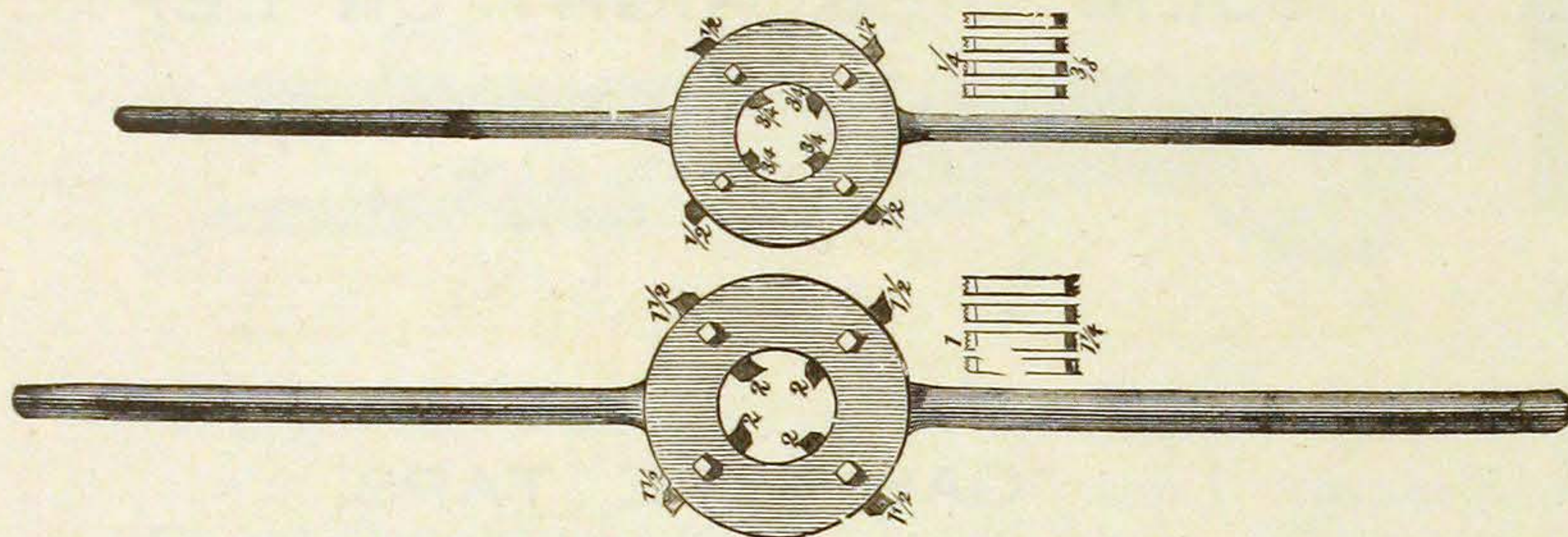
# Adjustable Screwing Stocks for Gas Pipe, Patent. 67

**Fig. 249.**



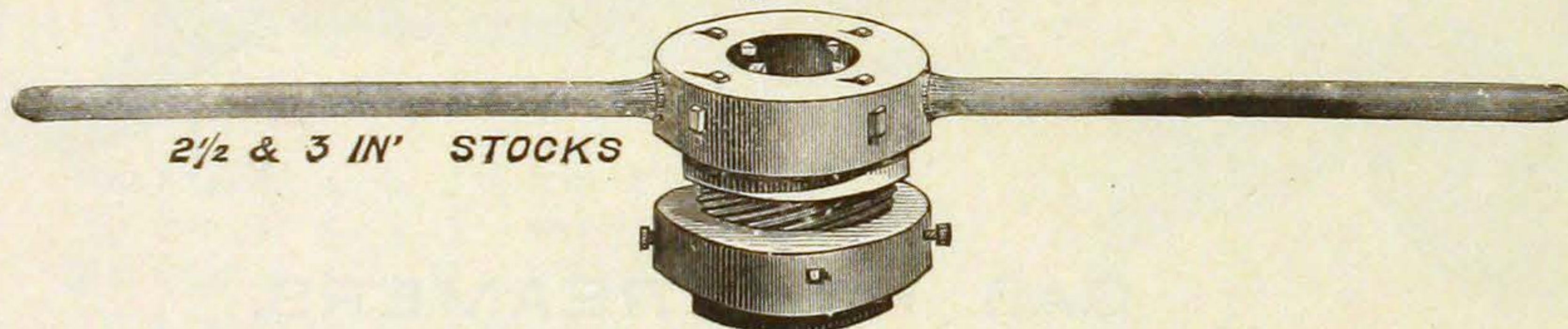
Side View, Nos. 1 and 2.

**Fig. 250.**



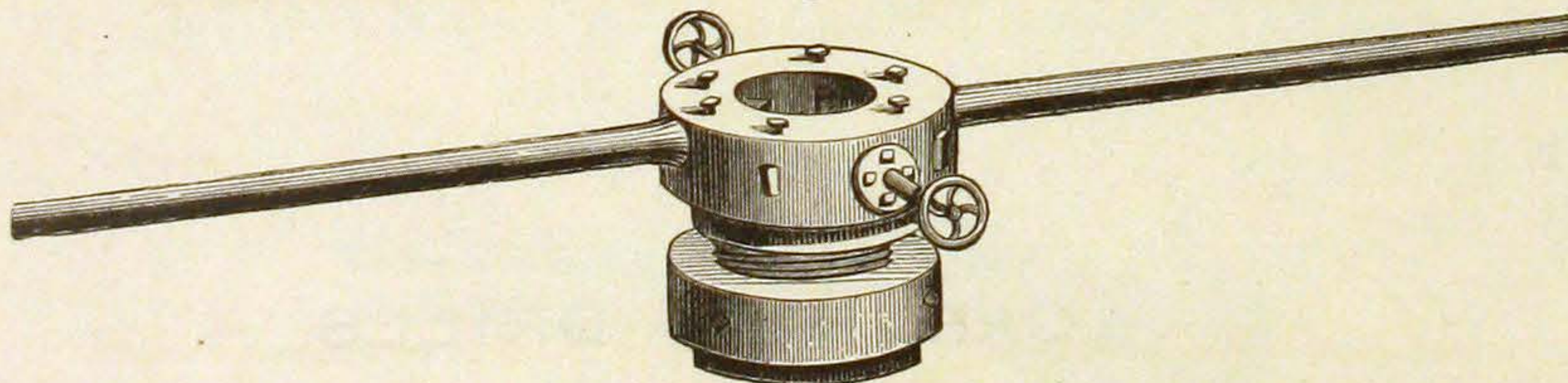
Top View, Nos. 1 and 2.  
No. 1, Stock, Threads,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ , and  $\frac{3}{4}$  Pipe  
" 2, " " 1,  $1\frac{1}{4}$ ,  $1\frac{1}{2}$  and 2 "

**Fig. 251.**



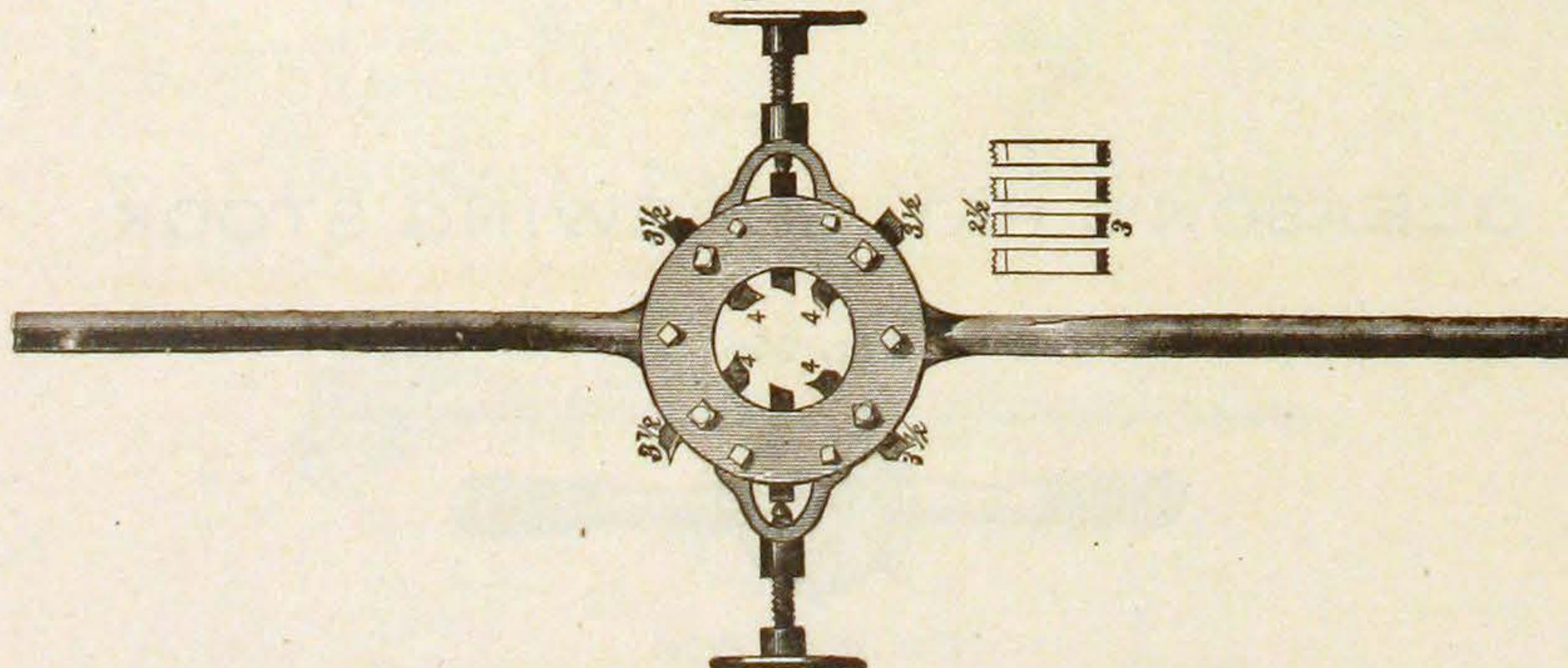
Side View, No.  $2\frac{1}{2}$ .  
No.  $2\frac{1}{2}$  Stock, Threads,  $2\frac{1}{2}$  and 3.

**Fig. 252.**



Side View, No. 3. Cutting and Screwing Stock.

**Fig. 253.**



Top View, No. 3 Cutting and Screwing Stock.  
No. 3 Stock, Threads and Cuts off  $2\frac{1}{2}$ , 3,  $3\frac{1}{2}$  and 4 Pipe.



## GAS FITTERS' TOOLS.

**Fig. 254.**

## SOLID DIES, RIGHT OR LEFT.

All sizes from  $\frac{1}{8}$  in. to 3 in.  $1\frac{1}{4}$  in. and over, 4 or 6 rows of teeth.

Hill's Patent Dies to order.

**Fig. 255.**

## GAS PIPE TAPS.

All sizes from  $\frac{1}{8}$  to 3 inch.

**Fig. 256.**

## GAS PIPE REAMERS.

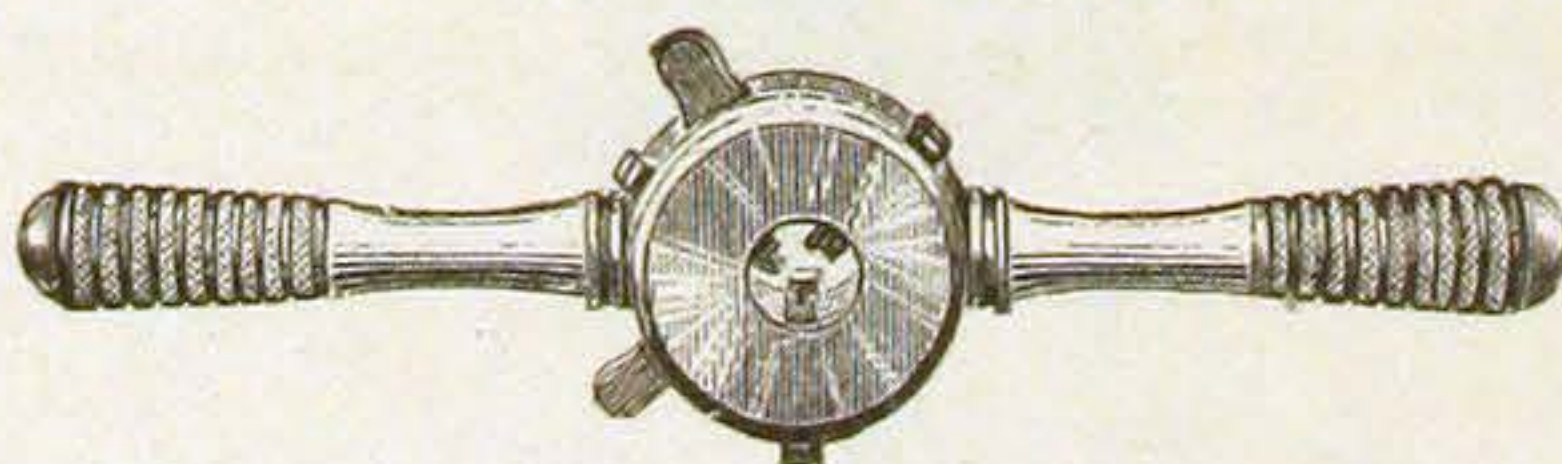
All sizes from  $\frac{1}{8}$  to 3 inch.

**Fig. 257.**

## GAS PIPE DRILLS.

All sizes from  $\frac{1}{8}$  to 3 inch.

## GLEASON'S PAT. SCREWING STOCK.

**Fig. 258.**

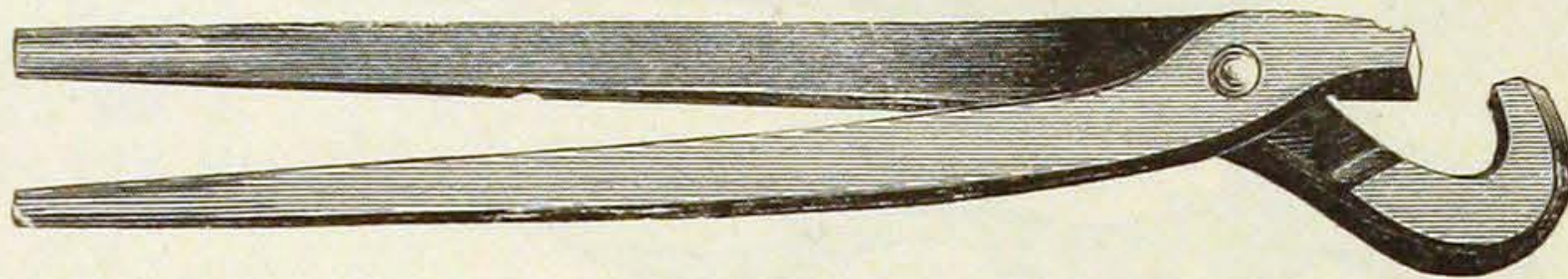
For Brass Pipe.



## PIPE TONGS.

## COMMON PIPE TONGS.

Fig. 259.

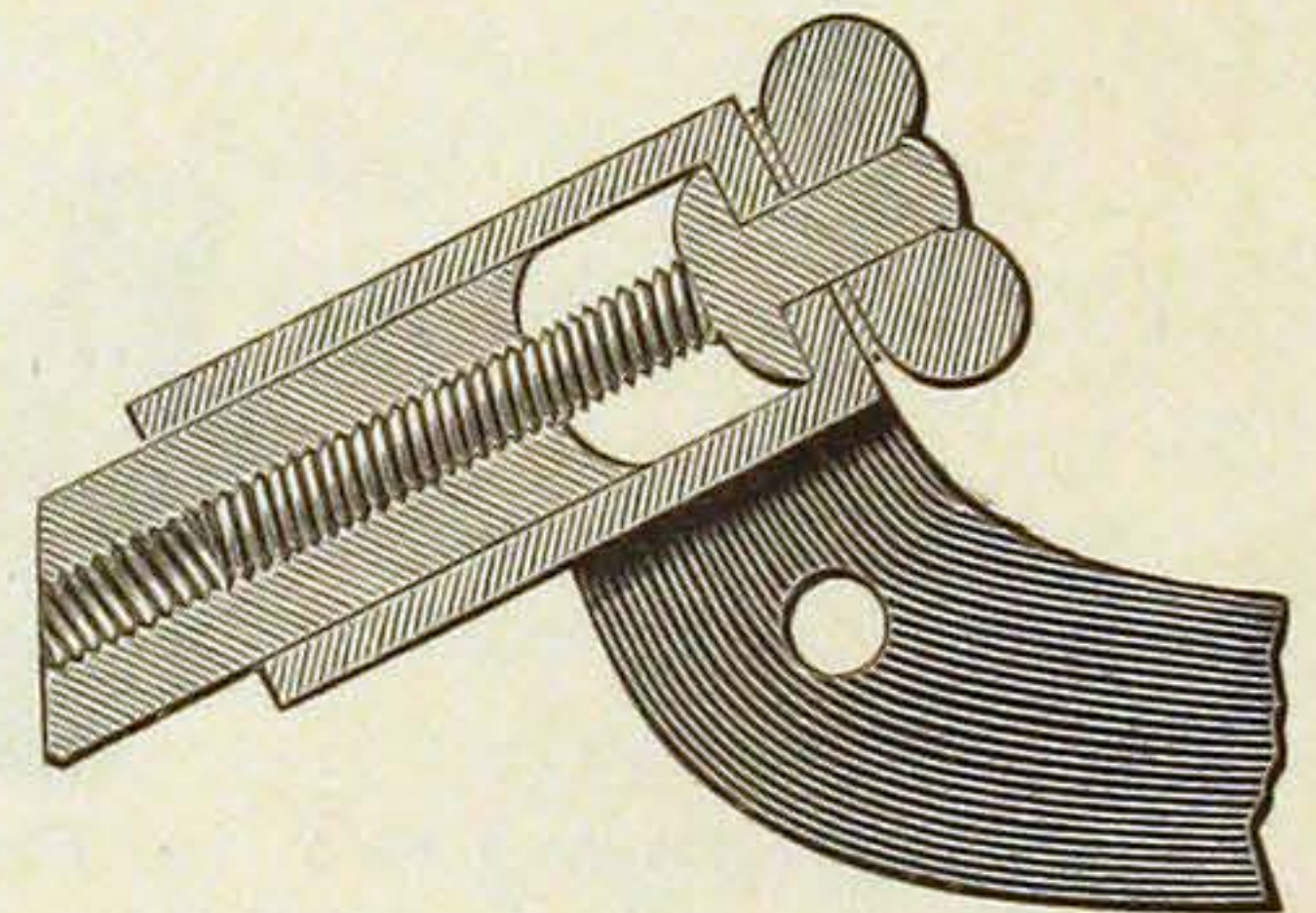
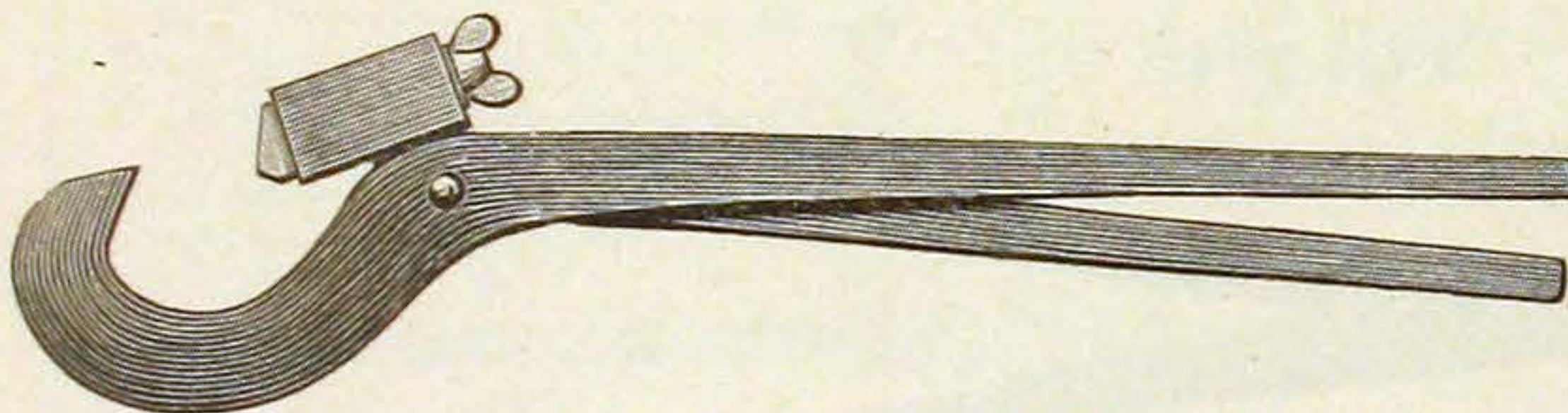
All sizes from  $\frac{1}{8}$  to 4 in.

## LYNCH'S PAT. ADJUSTABLE TONGS.

The best adjustable Tong in use.

Fig. 260.

Sectional View showing the working of Screw and Jaw.

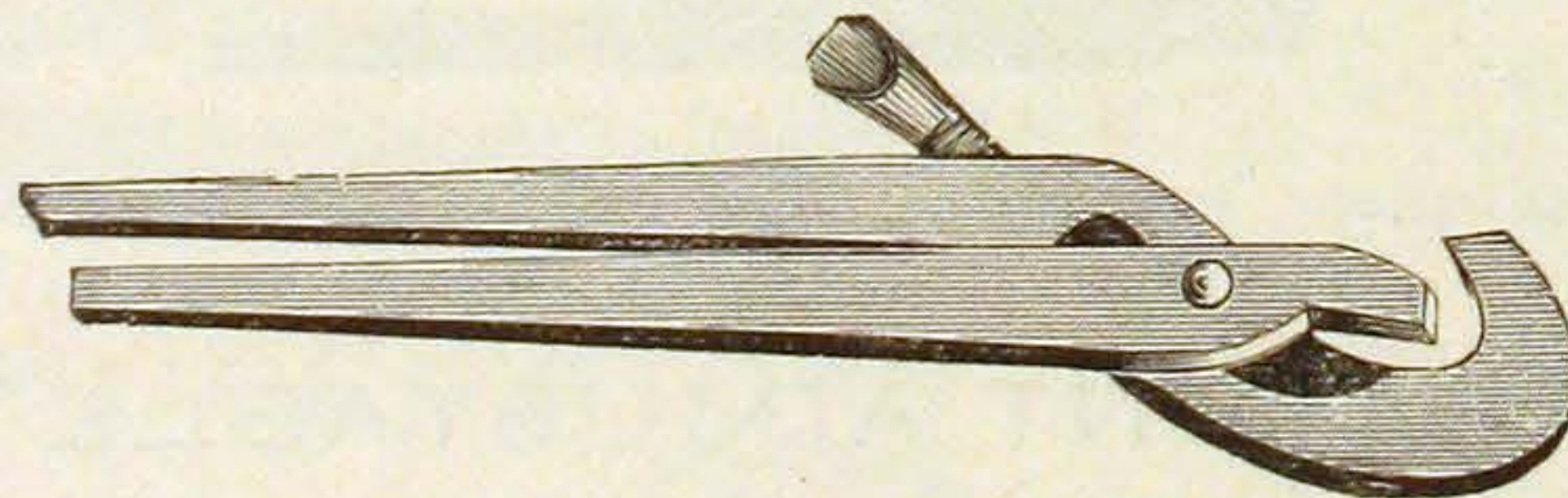


No. 1 takes  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$  and  $\frac{3}{4}$  in. Pipe.  
 No. 2 takes  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ , 1 and  $1\frac{1}{4}$  in. Pipe.  
 No. 3 takes 1,  $1\frac{1}{4}$ ,  $1\frac{1}{2}$  and 2 in. Pipe.  
 No. 4 takes  $1\frac{1}{2}$ , 2,  $2\frac{1}{2}$  and 3 in. Pipe.  
 No. 5 takes  $2\frac{1}{2}$ , 3,  $3\frac{1}{2}$  and 4 in. Pipe.

The Jaw can be ground and sharpened until used up.

## BROWN'S PAT. ADJUSTABLE TONGS.

Fig. 261.



No. 1 takes from  $\frac{1}{8}$  to  $\frac{3}{4}$  in. Pipe.  
 No.  $1\frac{1}{2}$  "  $\frac{3}{4}$  to 1 in. Pipe.  
 No. 2 "  $\frac{1}{2}$  to  $1\frac{1}{4}$  in. Pipe.  
 No. 3 " 1 to 2 in. Pipe.

No. 4 takes from  $1\frac{1}{2}$  to 3 in. Pipe.  
 No. 4 "  $2\frac{1}{2}$  to 4 in. Pipe.  
 No. 6 " 3 to 5 in. Pipe.

## ROBBIN'S PAT. CHAIN TONGS.

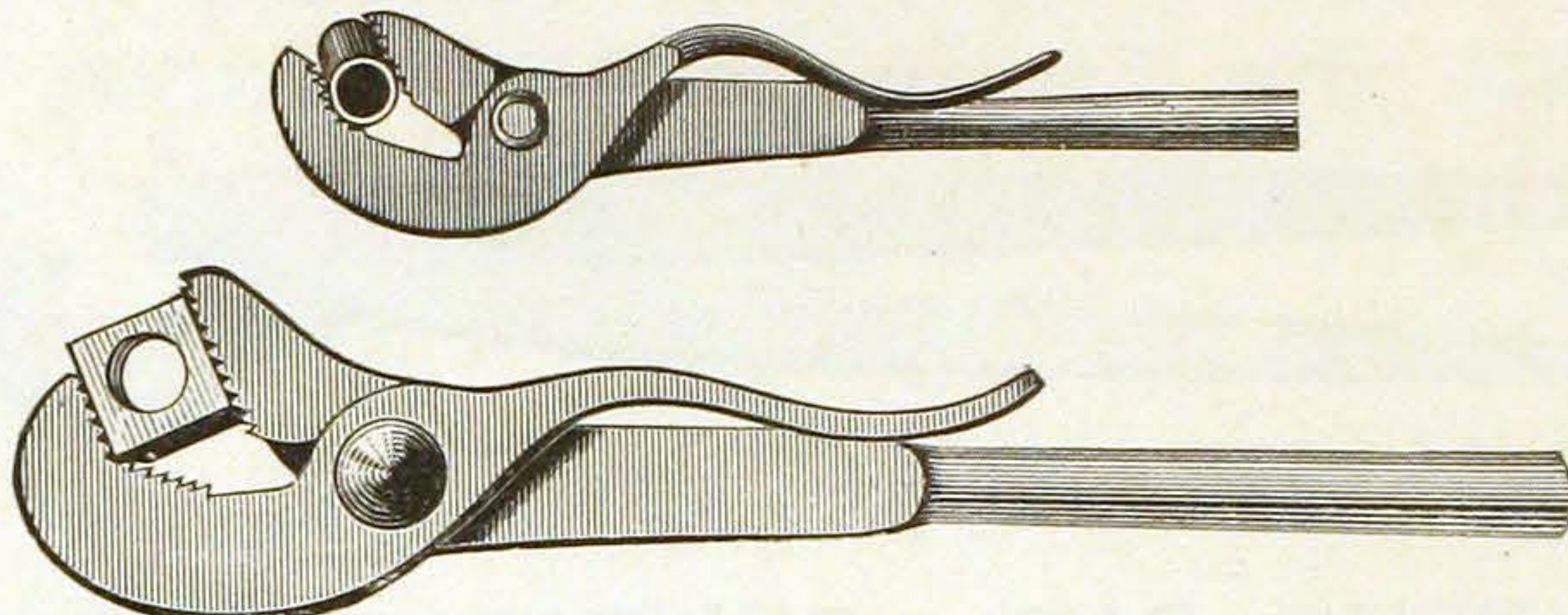
Fig. 262.



No. 2,	$2\frac{1}{4}$ feet long,	$\frac{1}{4}$ in. Chain	Weight 7 lbs.
No. 3,	3 " "	$\frac{5}{16}$ in.	" 12 lbs.
No. 4,	4 " "	$\frac{3}{8}$ in.	" 26 lbs.
No. 5,	5 " "	$\frac{7}{16}$ in.	" 33 lbs.
No. 6,	6 " "	$\frac{1}{2}$ in.	" 50 lbs.



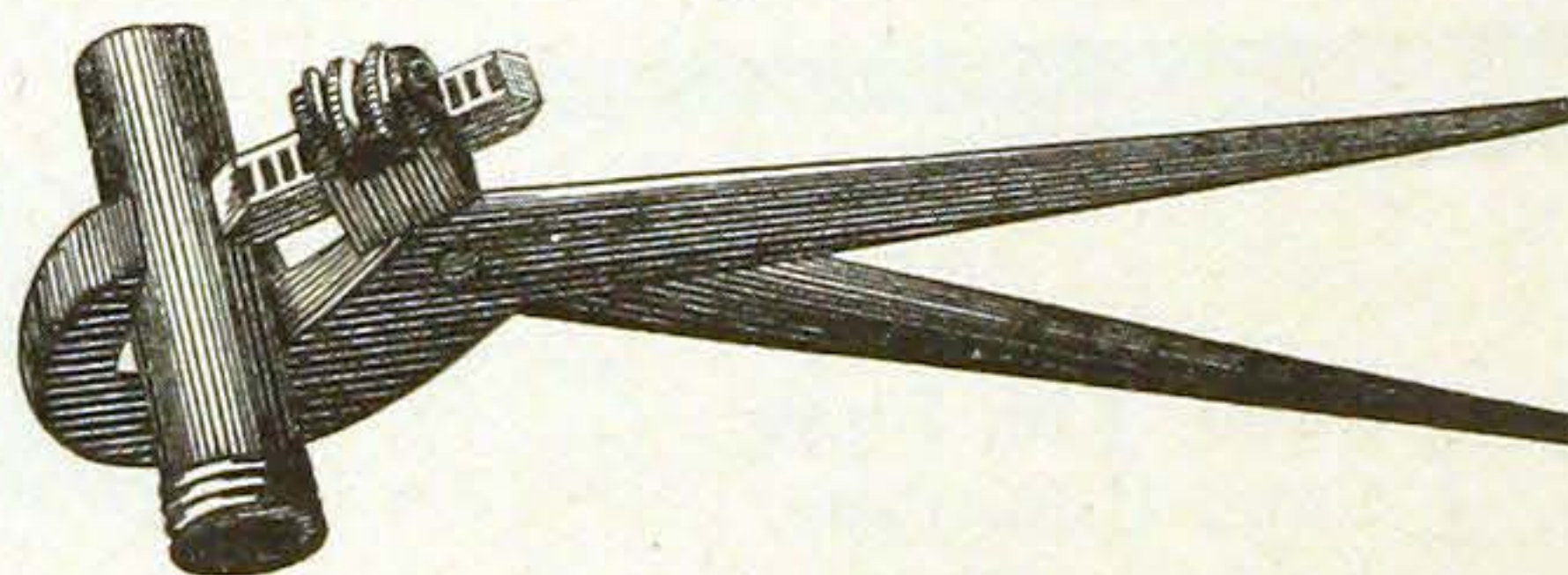
## PATENT PIPE TONGS. BARWICK'S PATENT WRENCHES AND TONGS.

**Fig. 263.**

No. 0 takes from No. 7 Wire to  $\frac{1}{2}$  in. Pipe.  
 No. 1 " " Gas Burner " $\frac{3}{4}$ " "  
 No. 2 " "  $\frac{1}{2}$  to  $1\frac{1}{4}$  inch Pipe.

No. 3 takes from 1 to 2 in. Pipe.  
 No. 4 " "  $1\frac{1}{2}$  " 3 " "  
 No. 5 " "  $2\frac{1}{2}$  " 4 " "

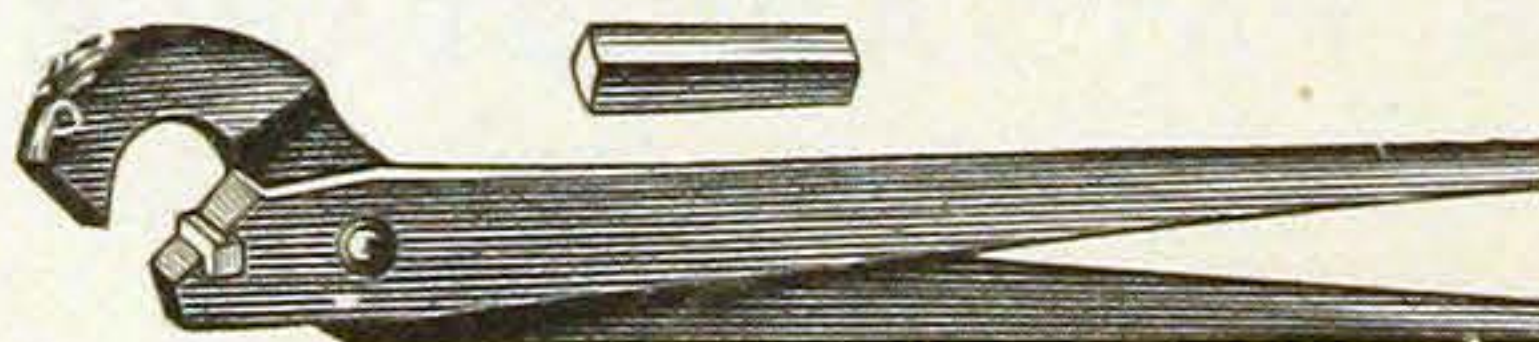
## JARECKI'S PATENT ADJUSTABLE TONGS.

**Fig. 264.**

No. 1 takes from  $\frac{1}{8}$  to 1 in. Pipe.  
 No. 2 " "  $\frac{1}{4}$  "  $1\frac{1}{2}$  " "

No. 3 takes from  $\frac{1}{2}$  to  $2\frac{1}{2}$  in. Pipe.  
 No. 4 " "  $\frac{3}{4}$  "  $3\frac{1}{2}$  " "

## LAY'S PATENT PIPE TONGS.

**Fig. 265.**

Bits furnished extra.

The Bit being square, four biting edges can be used before sharpening.  
 All Sizes from  $\frac{1}{4}$  to 4 inch Pipe.

## PEACE'S PATENT ADJUSTABLE TONGS.

**Fig. 266.**

No. 0 takes  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$  and  $\frac{1}{2}$  in. Pipe.  
 No. 1 "  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$  and 1 in. Pipe,

No. 2 takes 1,  $1\frac{1}{4}$ ,  $1\frac{1}{2}$  and 2 in. Pipe.  
 No. 3 "  $2\frac{1}{2}$ , 3,  $3\frac{1}{2}$  " 4 " "

## SELF-ADJUSTING TONGS.

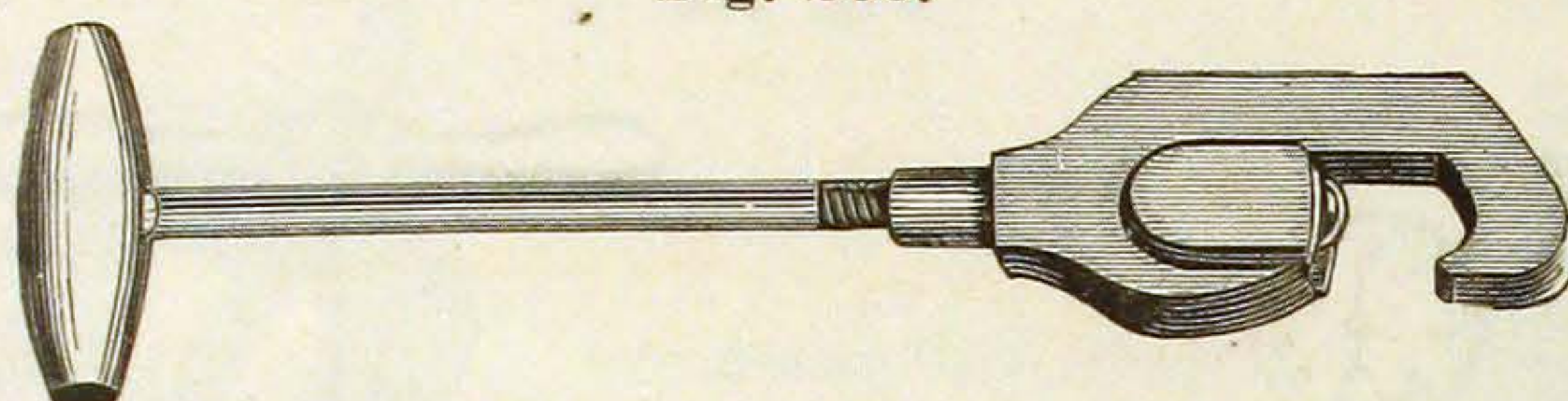
**Fig. 267.**

No. 1 takes from  $\frac{1}{8}$  to 1 in. Pipe.  
 No. 2 " "  $\frac{1}{4}$  to  $2\frac{1}{2}$  " "



# GAS FITTERS' TOOLS. STANWOOD PIPE CUTTER.

Fig. 268.



No. 1 cuts from  $\frac{1}{8}$  to 1 in. Pipe. No. 2 cuts from  $\frac{3}{4}$  to 2 in. Pipe. No. 3 cuts from  $1\frac{1}{2}$  to 3 in. Pipe.  
Extra Blocks for above.

## WHEEL FOR STANWOOD CUTTER.

Fig. 269.



For Nos. 1, 2 and 3 Cutters.

## AUGER.

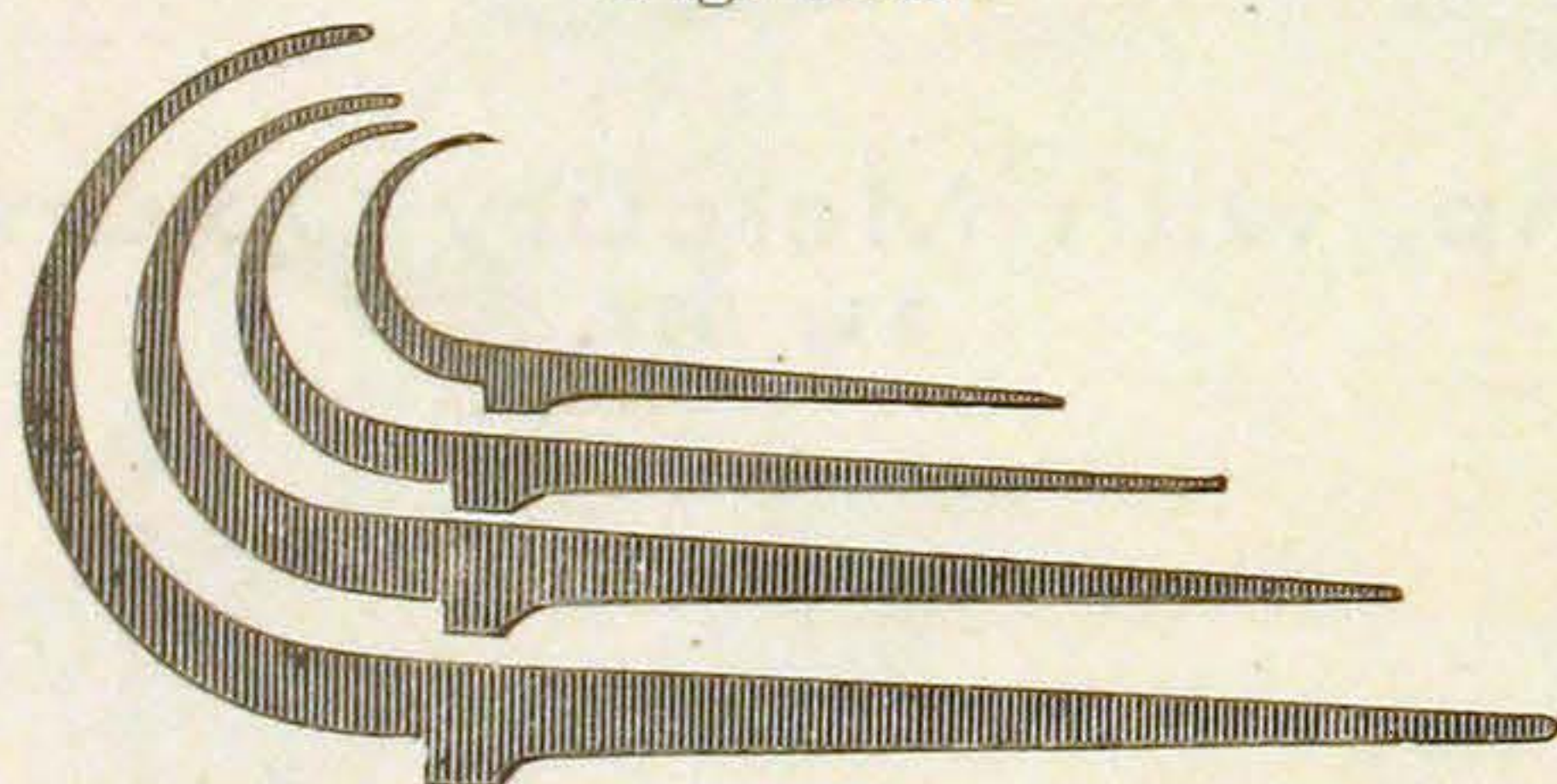
Fig. 270.



For all Sizes of Pipe.

## GAS PIPE HOOKS.

Fig. 272.



For all Sizes of Pipe.

## BLOW PIPE.

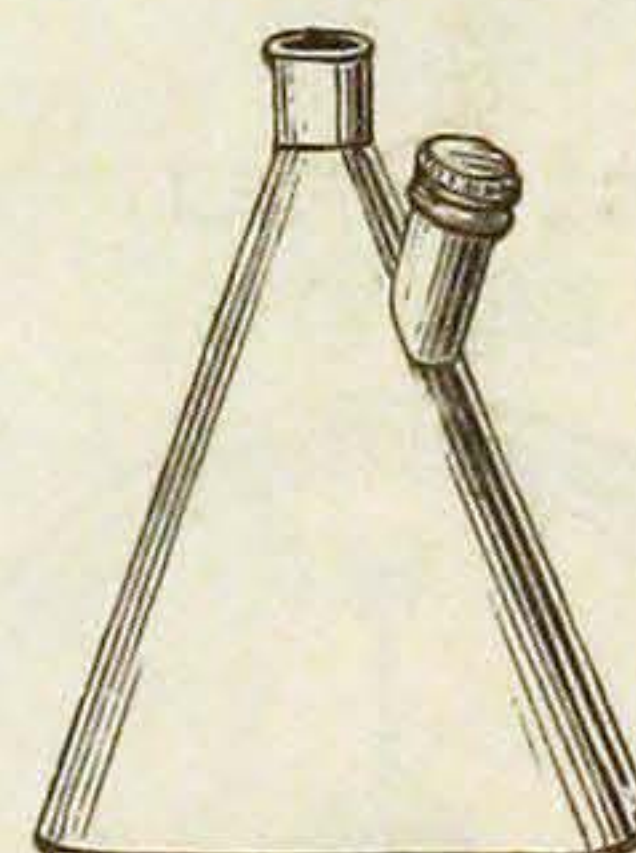
Fig. 271.



Various Lengths.

## TORCH.

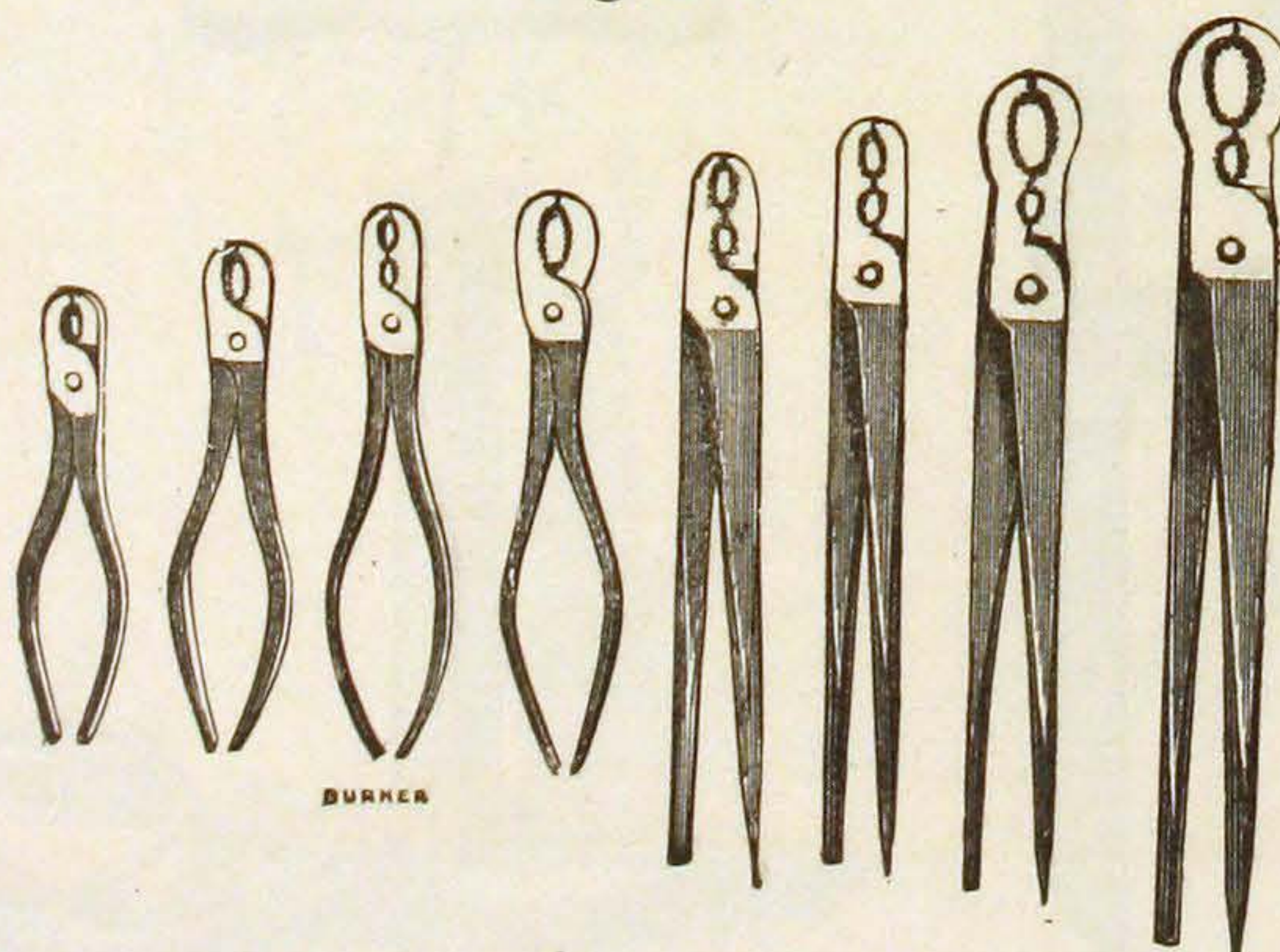
Fig. 273.



Tin or Brass.

## HUBER'S GAS PLYERS.

Fig. 274.



No. 0, 6 inch.  
No. 1, 7 "

Burner,  $7\frac{1}{2}$  inch.  
No. 2, 8 "

No. 3, 9 inch.  
No. 4, 10 "

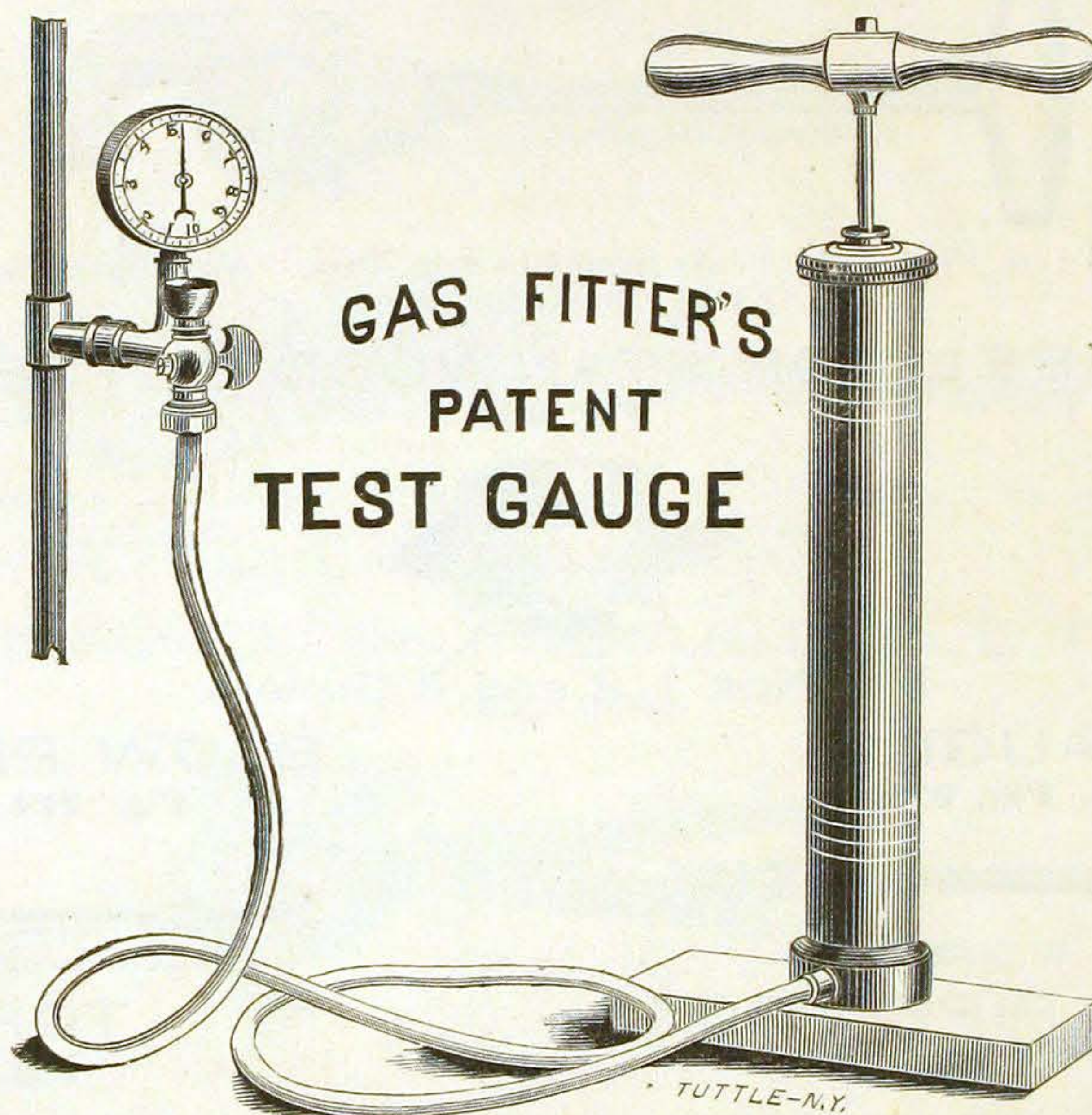
No. 5, 11 inch.  
No. 6, 12 "

No. 7, 13 inch.  
No. 8, 14 "

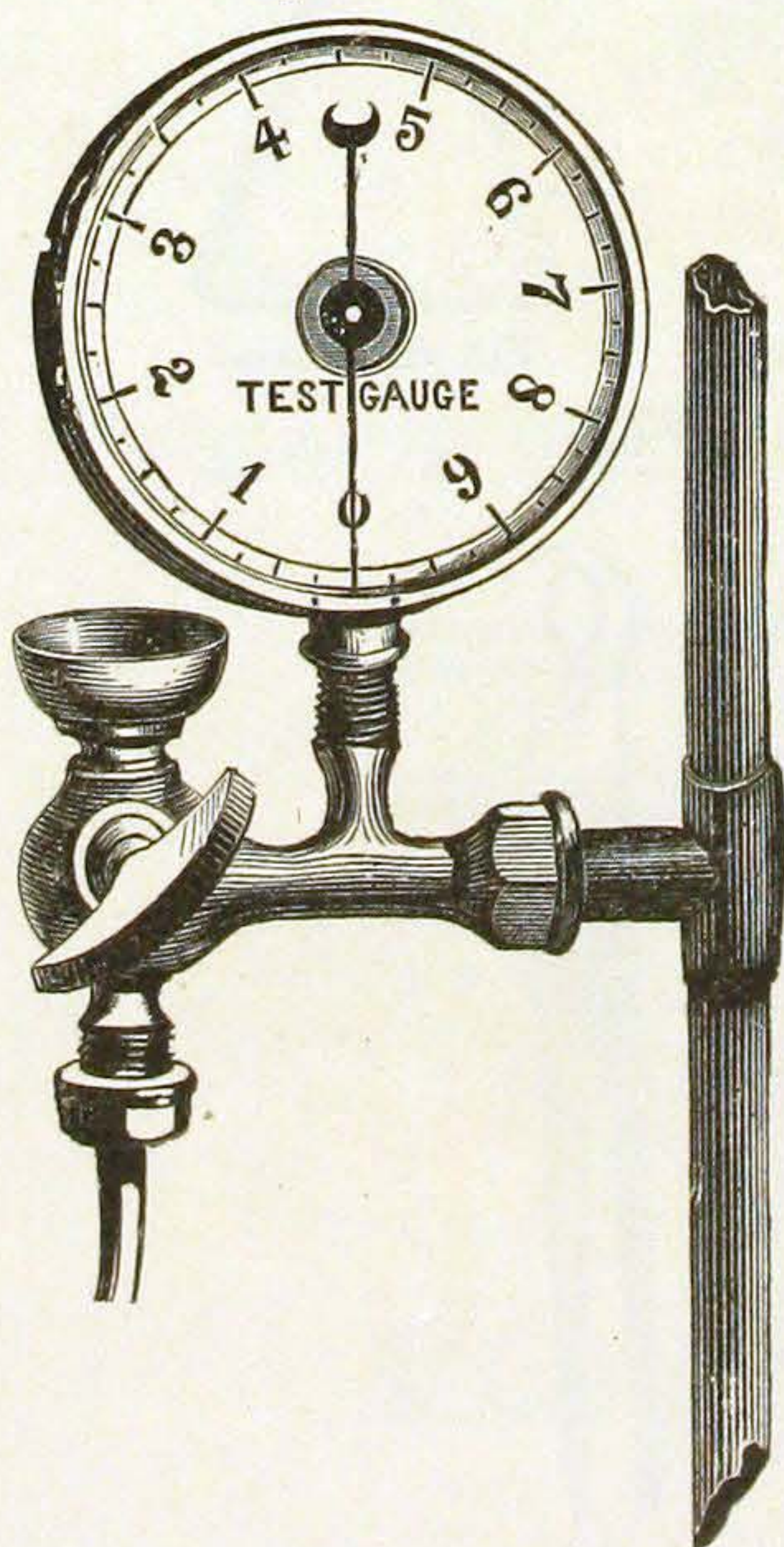


# GAS FITTER'S PROVING PUMPS. WITH TEST GAUGE.

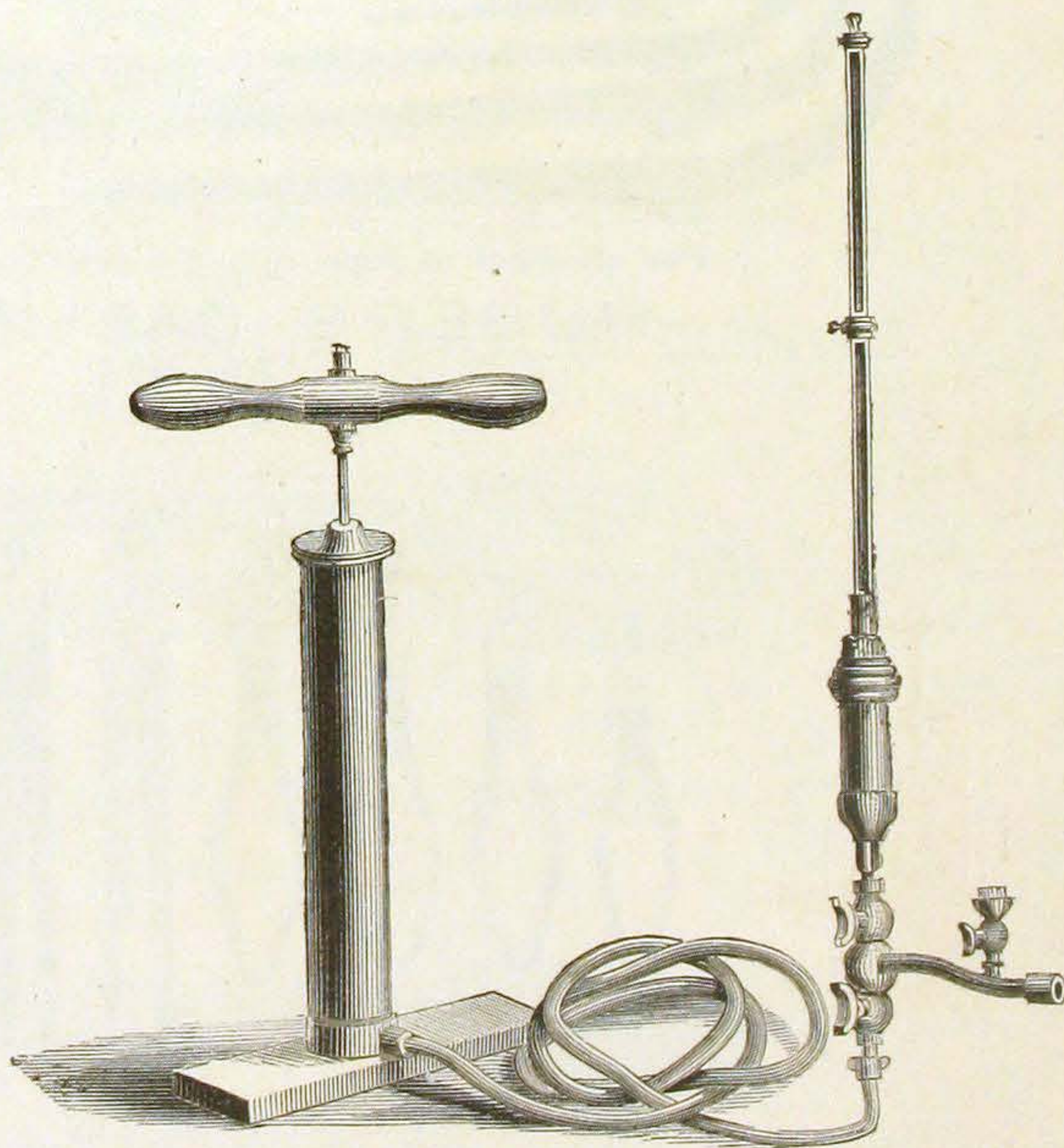
Fig. 275.



Test Gauge.  
Fig. 276.



Pump, with Mercury Column.  
Fig. 277.



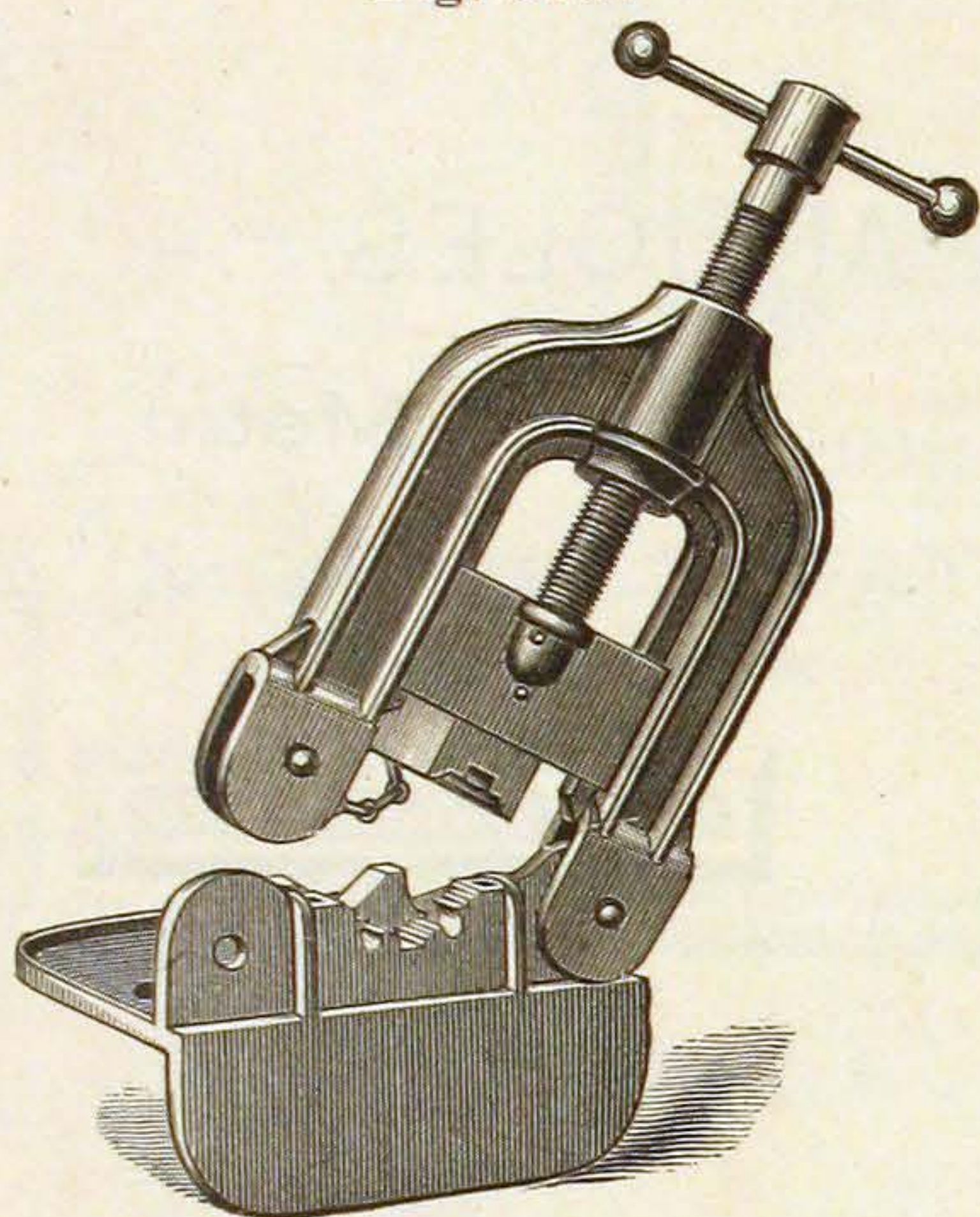
Pumps, Mercury Columns or Test Gauges Extra, to order.



# PIPE VISES.

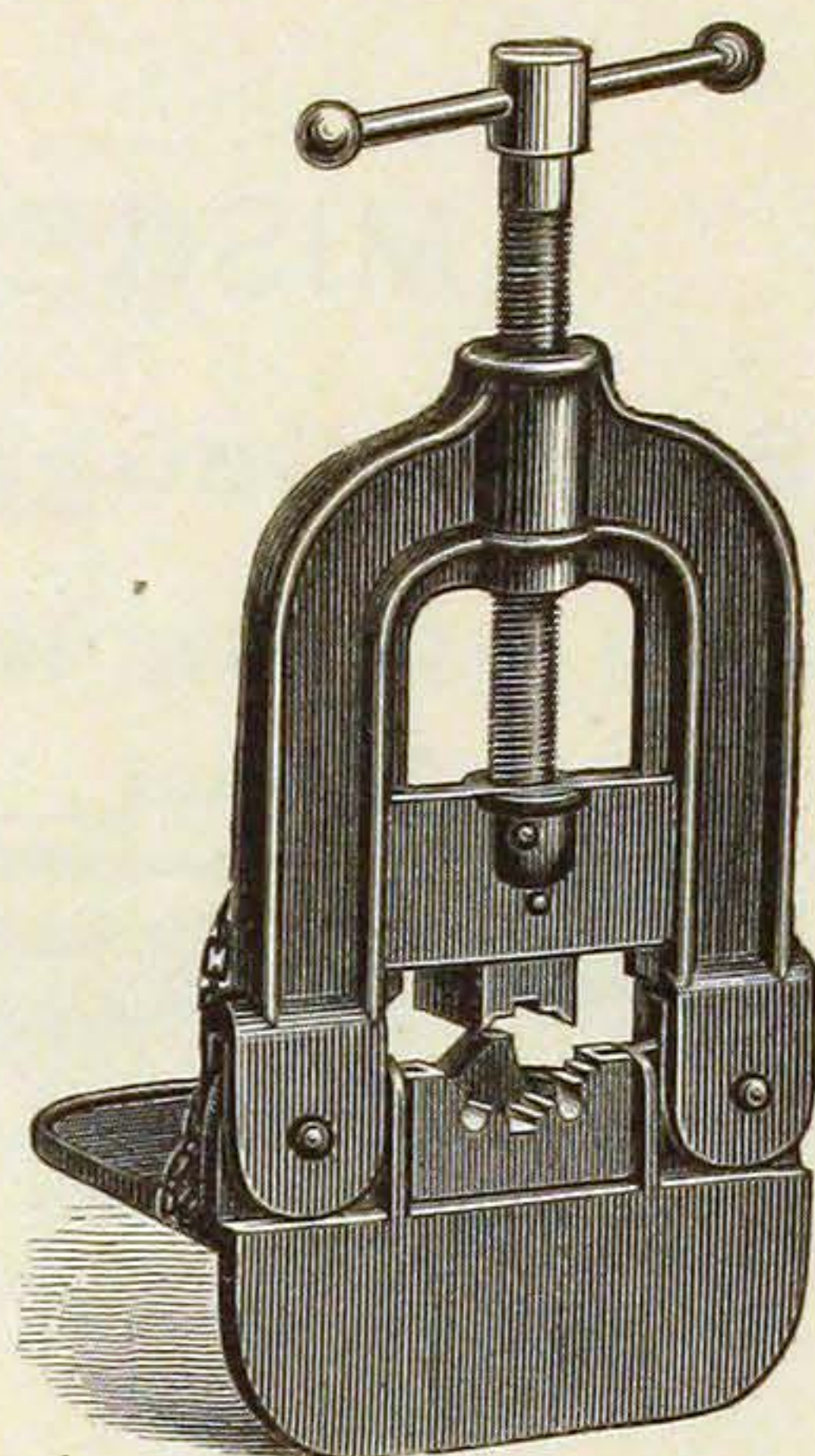
## MALLEABLE IRON PIPE VISE.

**Fig. 278.**



Open.

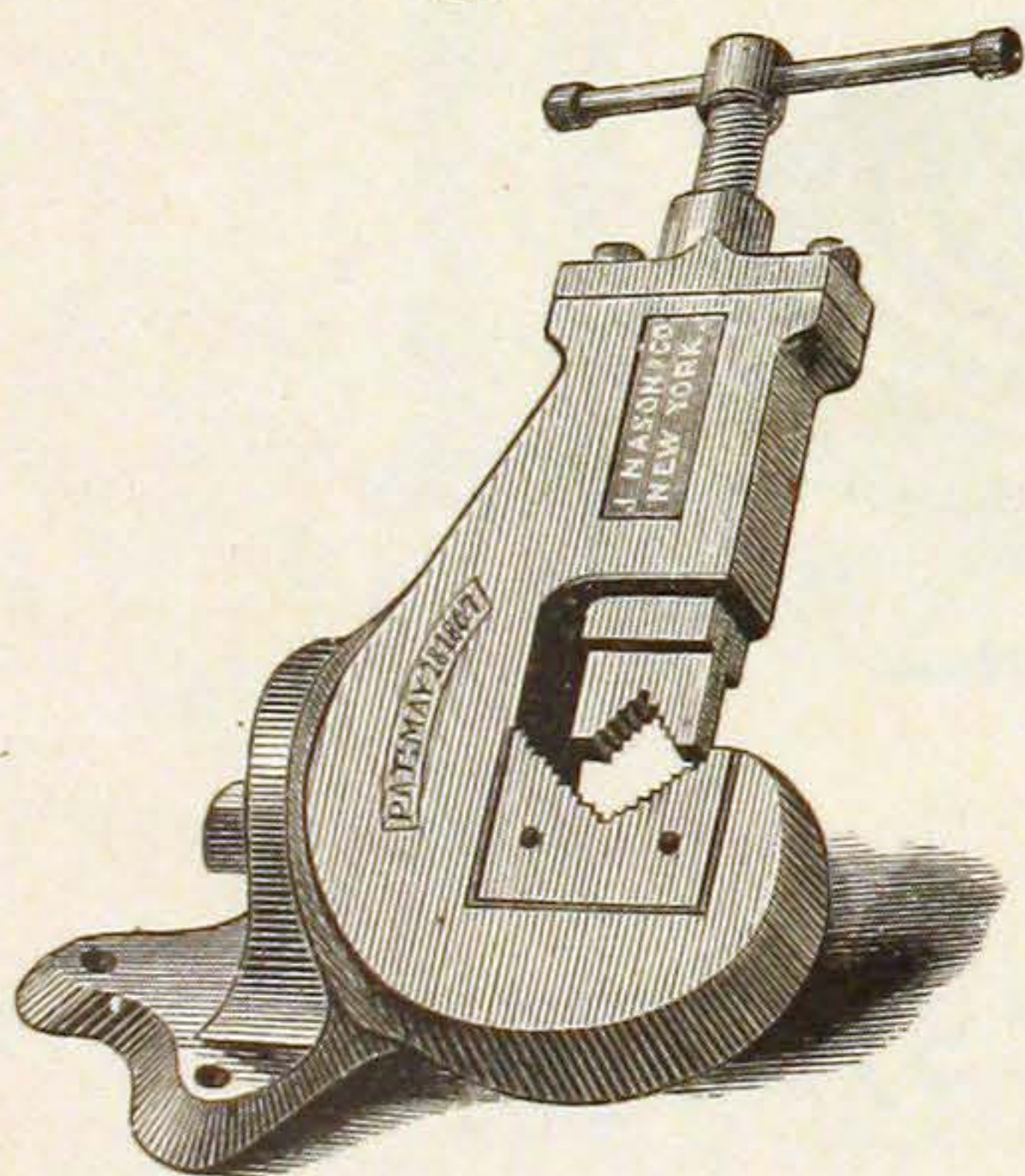
A very light, strong  
and cheap Vise.

**Fig. 279.**

Closed.

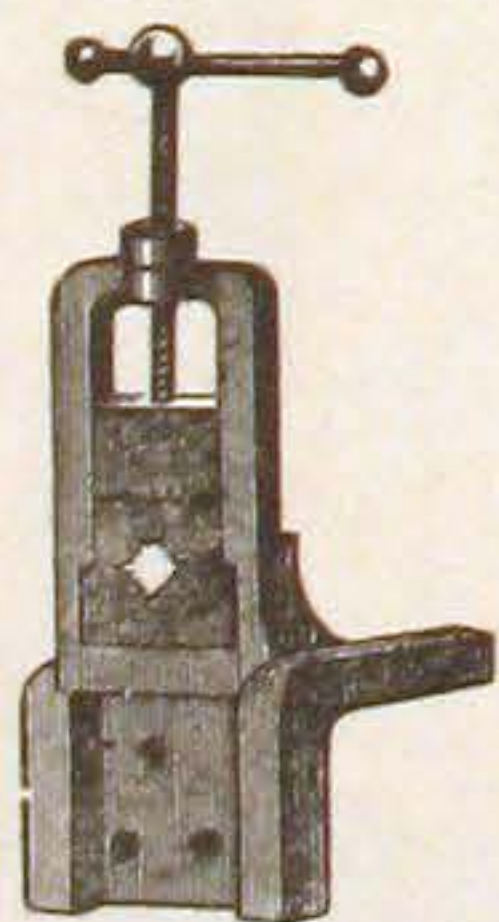
Takes from  $\frac{1}{8}$  to 2 in. Pipe.

**Nason's Pipe Vise**  
**Fig. 280.**

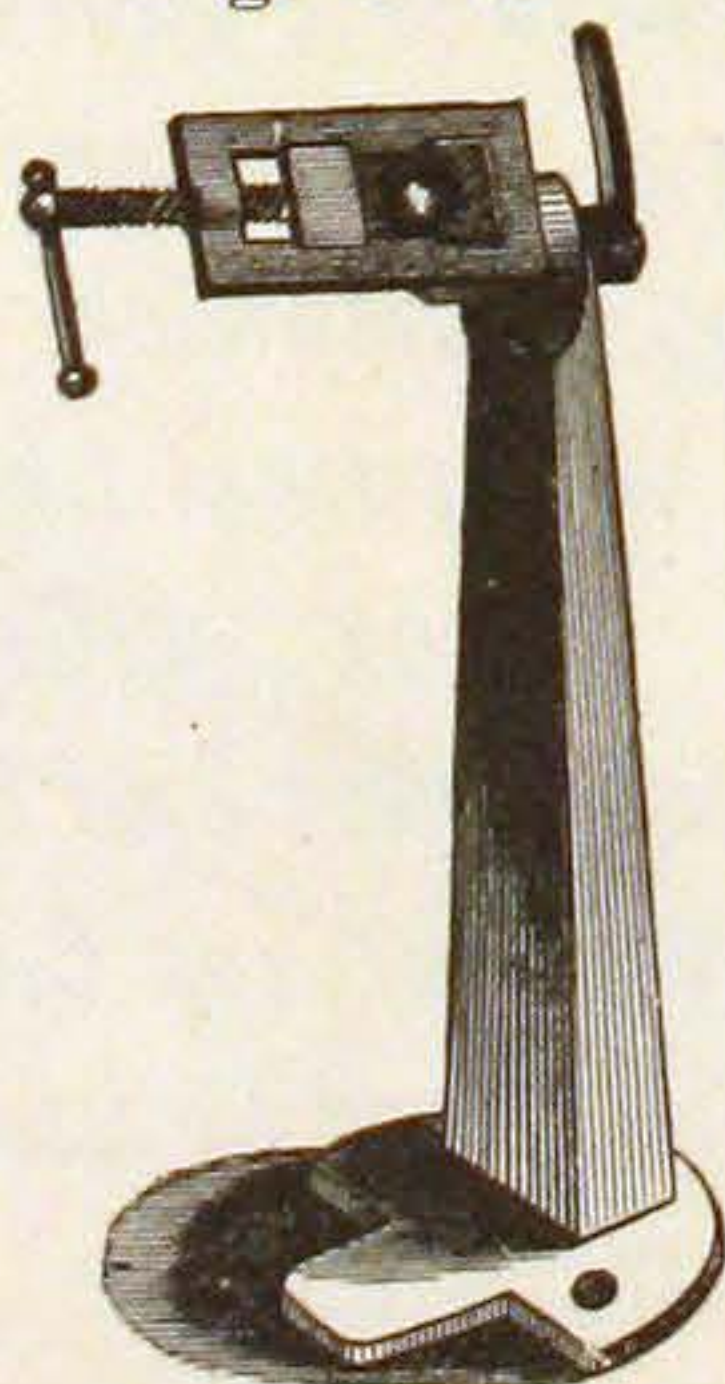


No. 1 takes from  $\frac{1}{8}$  to 1 $\frac{1}{4}$  in. Pipe.  
No. 2 " "  $\frac{1}{8}$  to 2 " "  
No. 3 " "  $\frac{1}{4}$  to 3 " "

**Angle Pipe Vise. Pipe Vise with Stand.**  
**Fig. 282.**

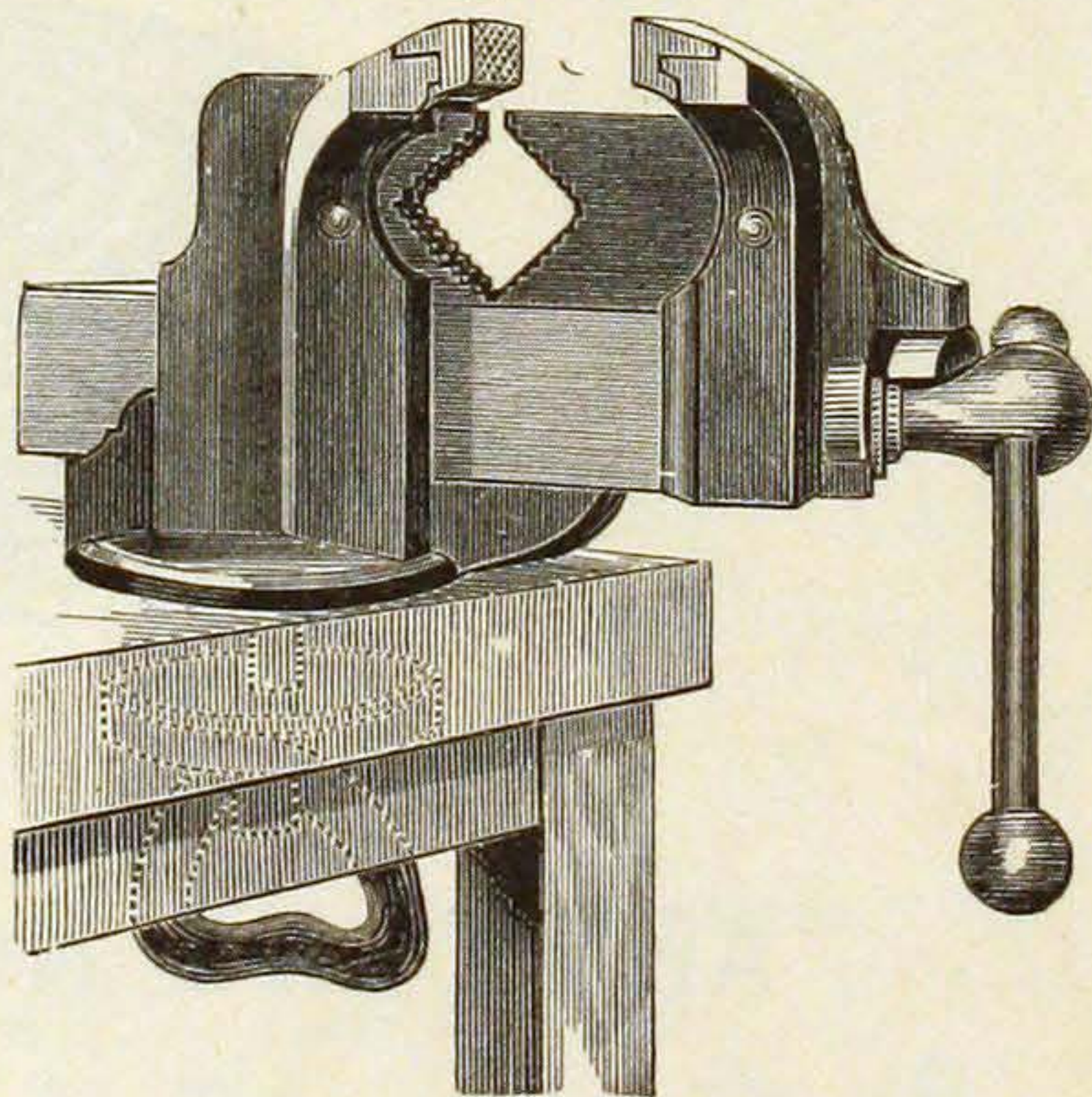


No. 1,  $\frac{1}{8}$  to 2 in.  
No. 2,  $\frac{1}{8}$  to 4 "



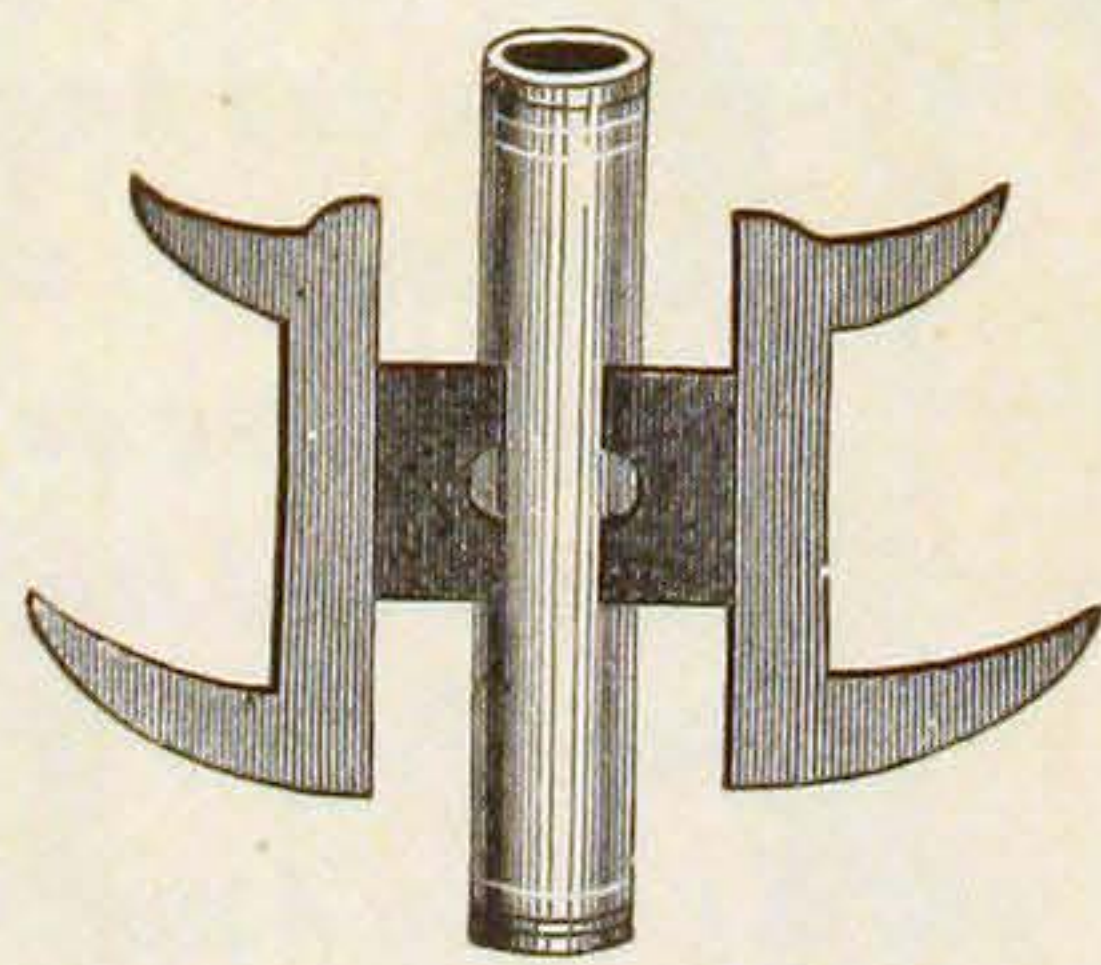
No. 1,  $\frac{1}{8}$  to 2 in. Pipe.  
No. 2,  $\frac{1}{8}$  to 4 " "

**Patent Combination Vise.**  
**Fig. 281.**



No. 1 takes to 2 in. Pipe.  
No. 2 " " 2 " "

**Patent Pipe Clamp.**  
**Fig. 284.**



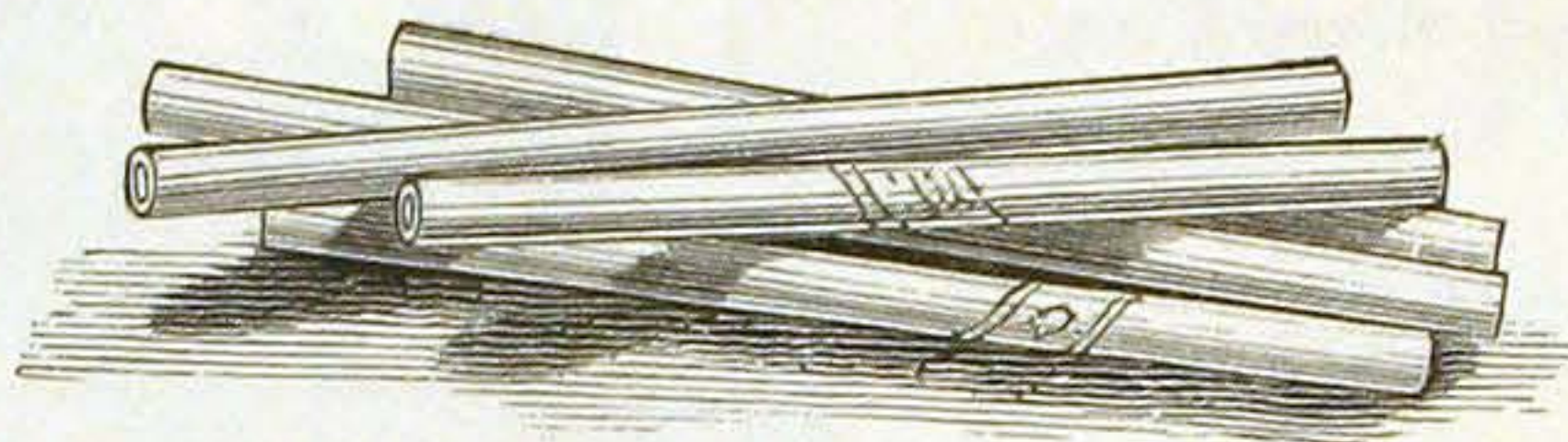
Takes from  $\frac{1}{8}$  to 2 in.



## MISCELLANEOUS ARTICLES.

Scotch Gauge Glasses.

**Fig. 285.**



Tuomey's Make. All Sizes.

Babbitt Metal.

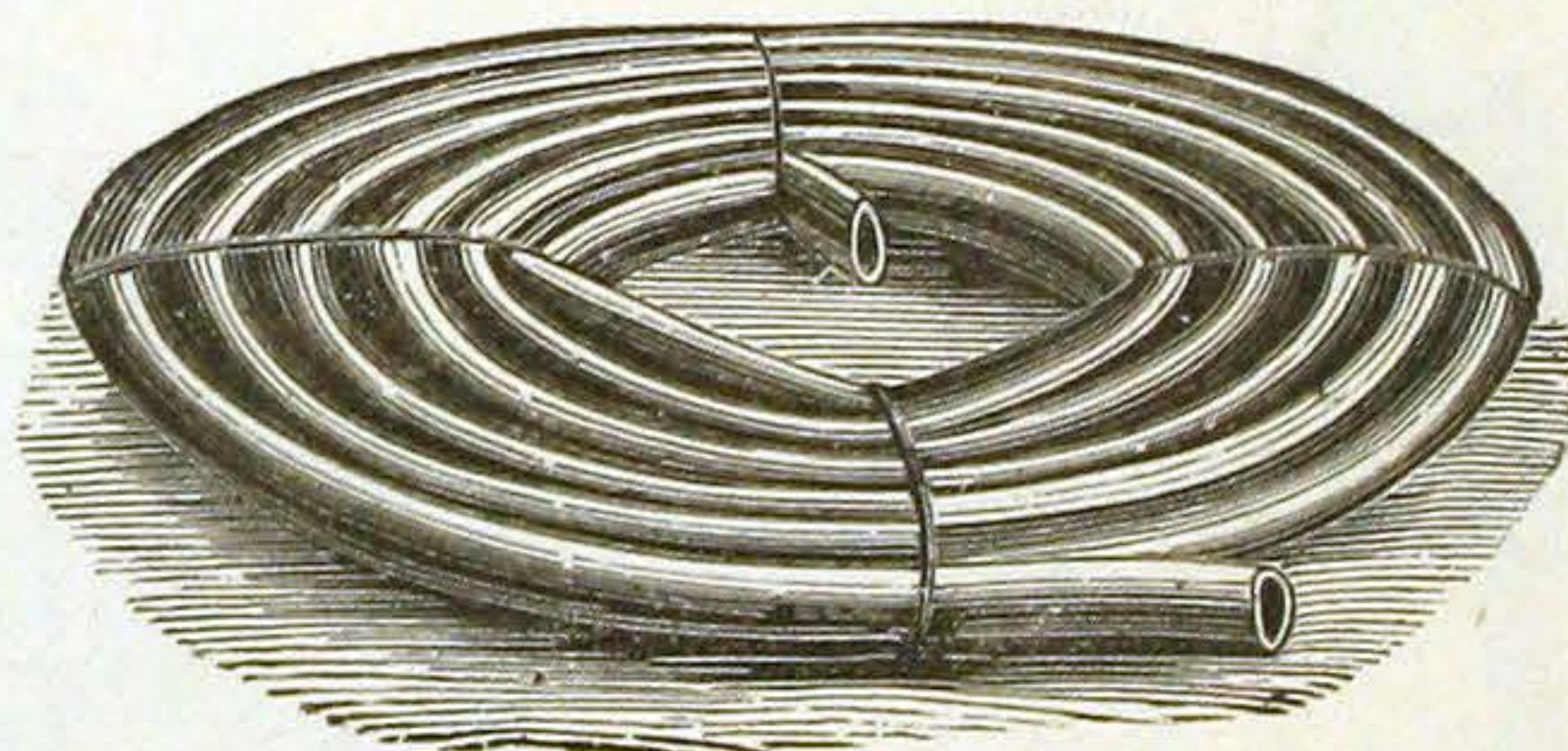
**Fig. 286.**



Various Qualities.

## HOSE.

**Fig. 286½.**



Rubber, Leather and Linen Hose.

## ARTICLES NOT ILLUSTRATED.

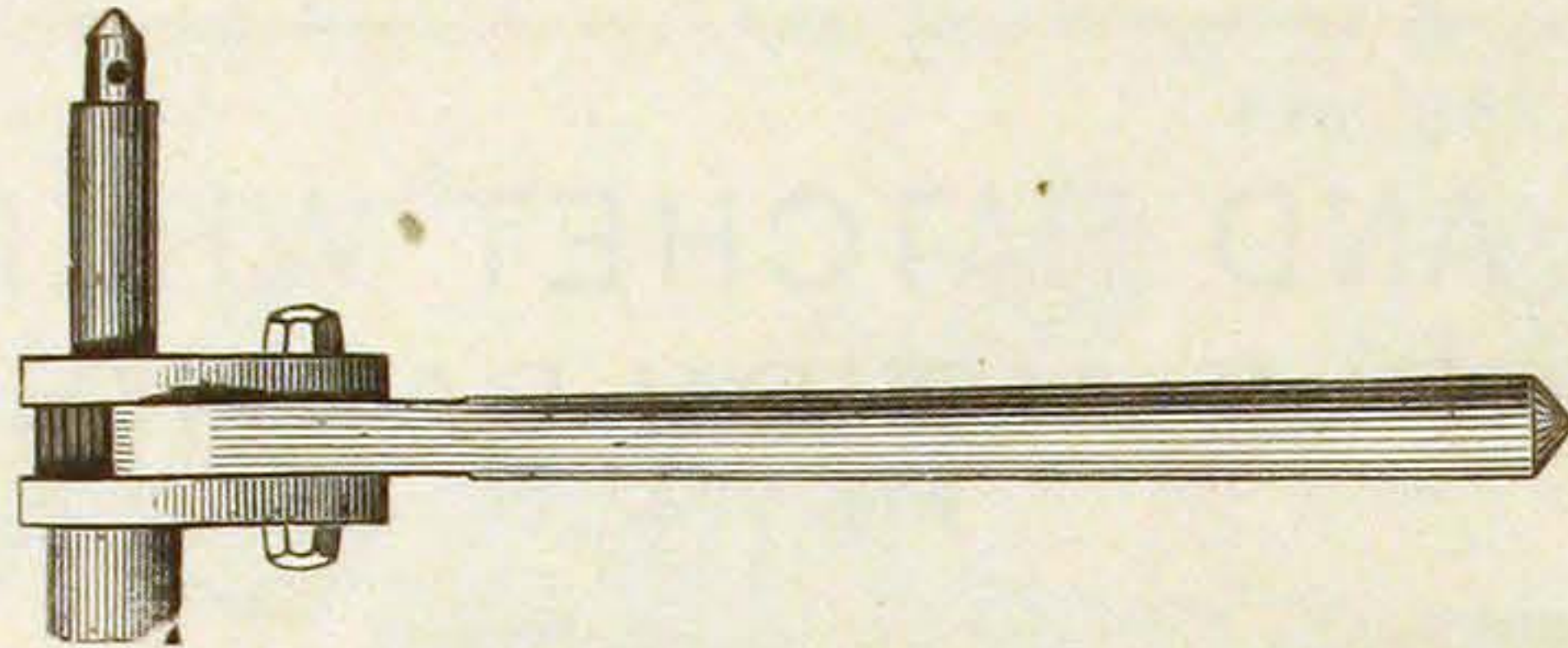
*Hair Felting for covering Pipes and Boilers.  
 Rubber Belting and Leather Belting.  
 Rubber Packing, in Sheets, Round or Square.  
 Italian and Flax Hemp Packing. Soapstone Packing.  
 Empire and American Packing. Lampwick.  
 Lace Leather, in sides, or cut with patent tipped ends.  
 Waste. Red and White Lead. Borax. Plumbago.  
 Copper and Iron Wire. Copper Rivets and Burrs  
 Sand Paper. Emery. Emery Paper and Cloth,  
 and a general Assortment of Supplies used by Steam and Gas Fitters,  
 Machinists, etc.*



# RATCHET DRILLS.

## INGERSOLL'S PATENT RATCHET DRILL.

Fig. 287.

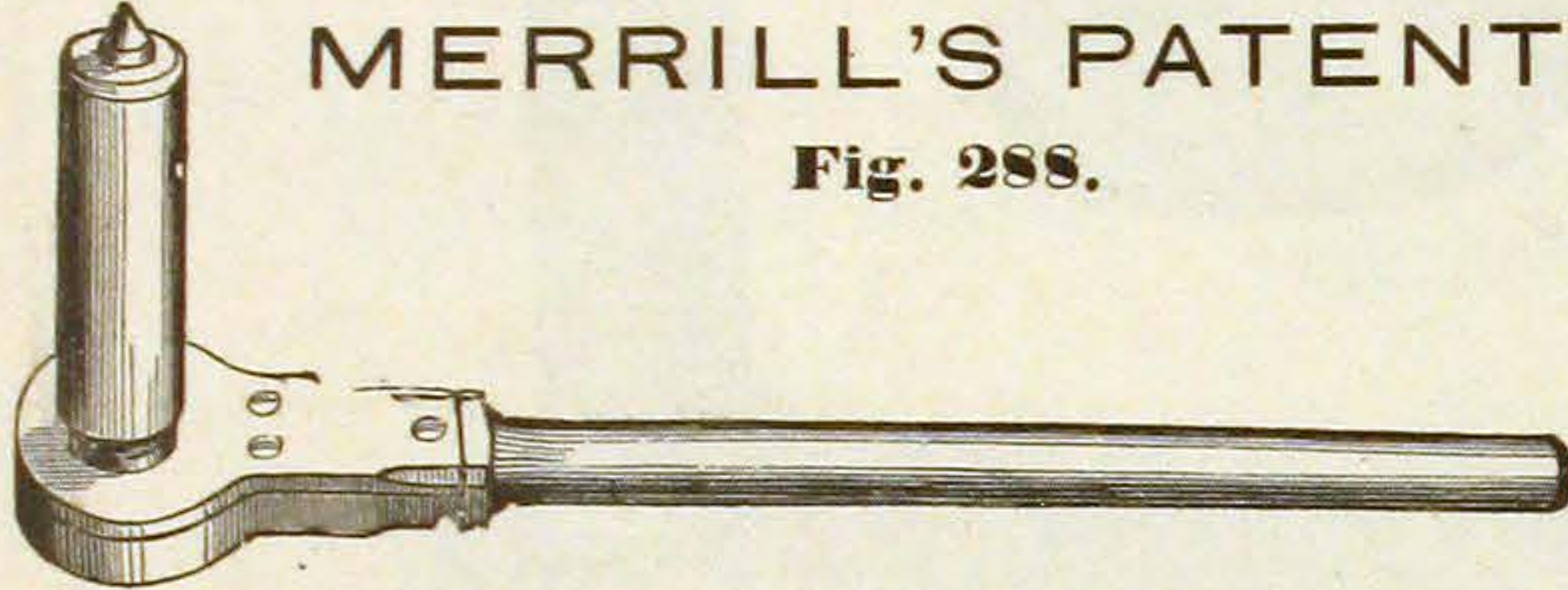


No. 1, 12 in. No. 2, 16 in. No. 3, 20 in.

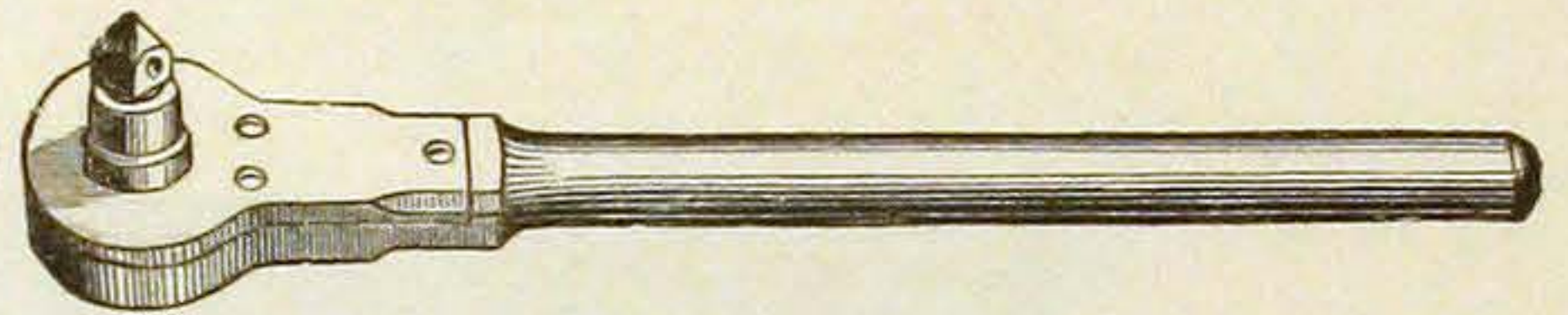
## MERRILL'S PATENT RATCHET DRILLS.

Fig. 288.

Fig. 289.



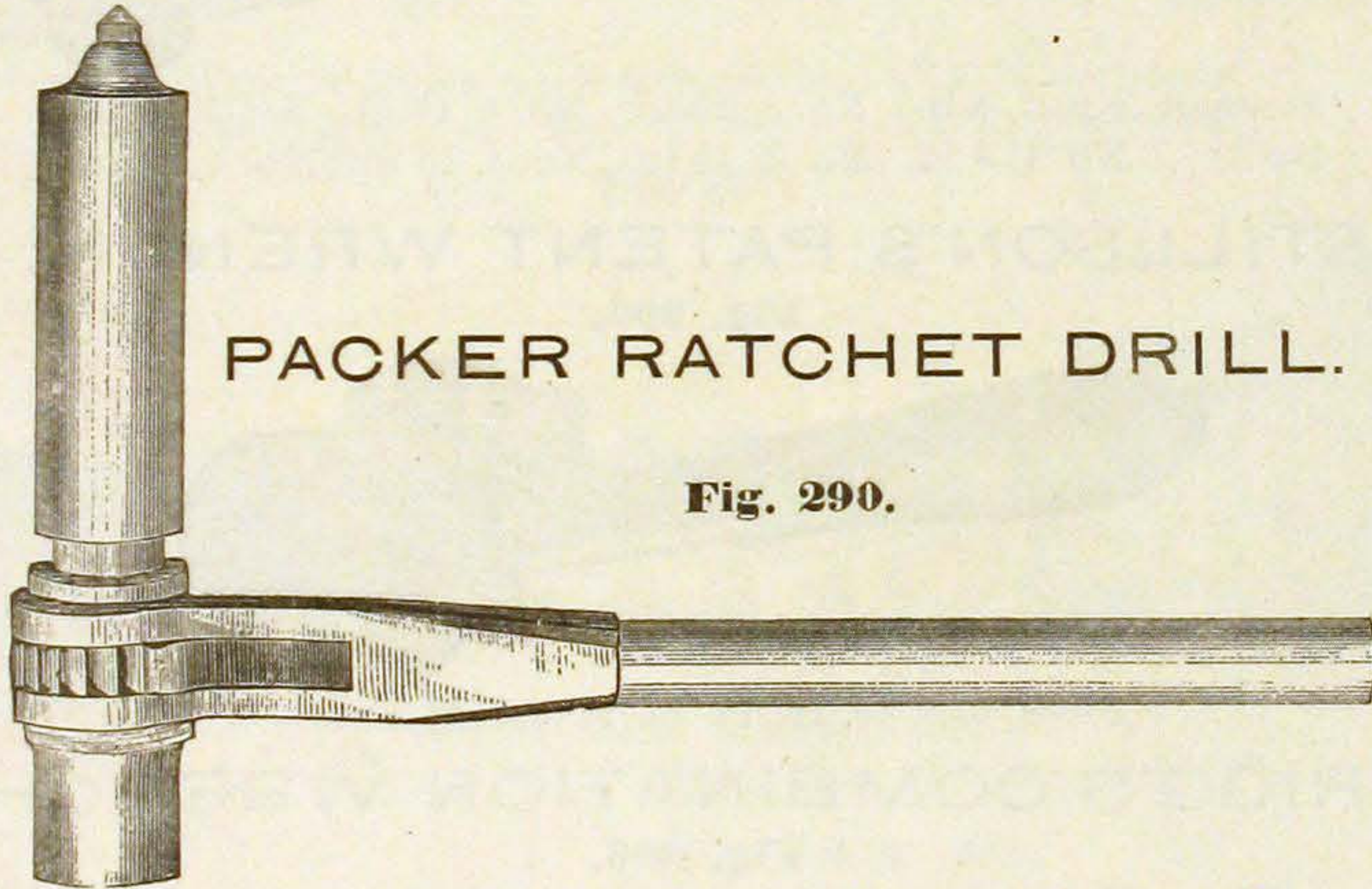
Sizes, 10, 12, 15 and 20 in.



Boiler Ratchet 12 in.

## PACKER RATCHET DRILL.

Fig. 290.



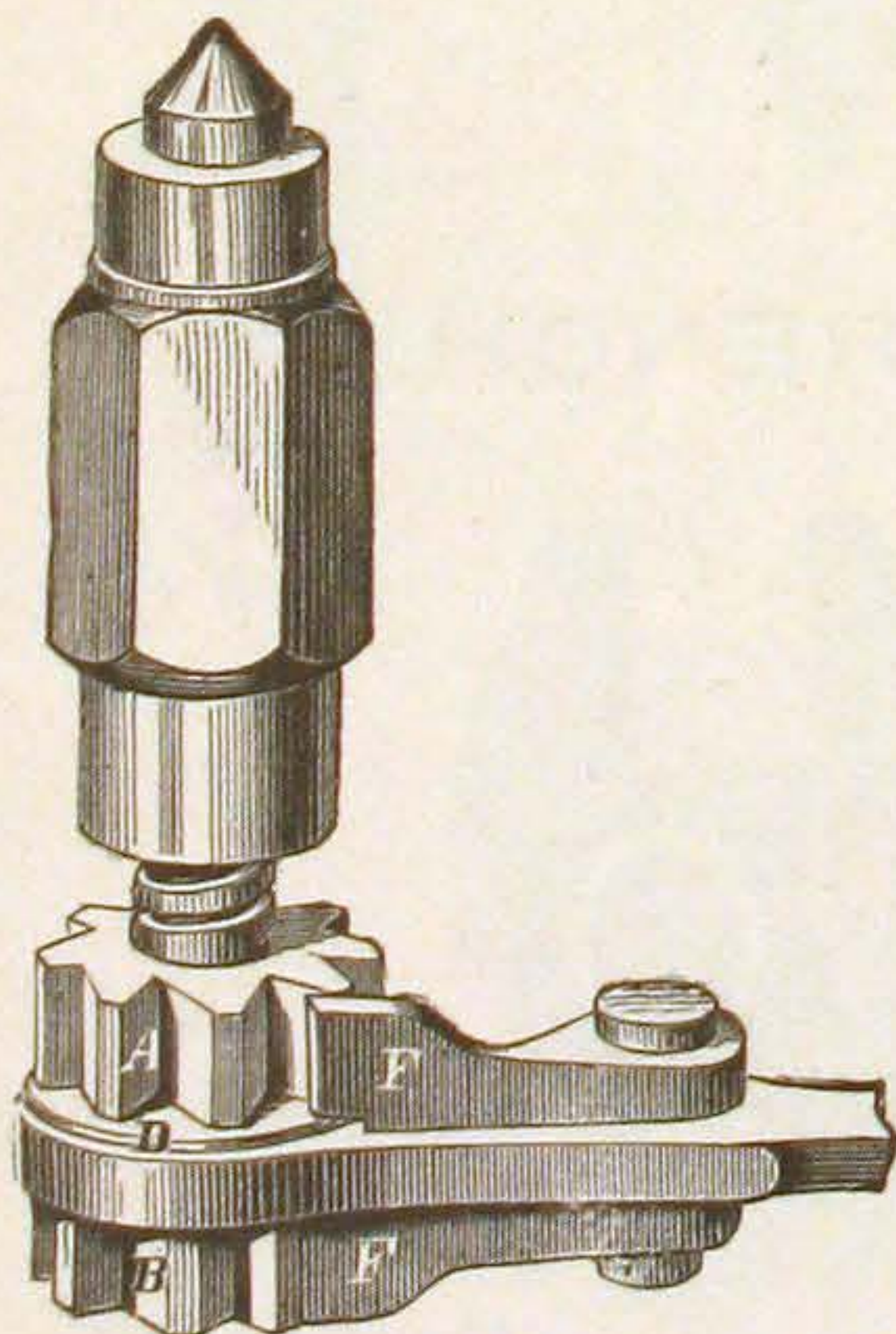
Nos.	1	2	3	4	5	
Length of Handle,	10	12	15	17	20	inches.

## WESTERN RATCHET DRILLS.

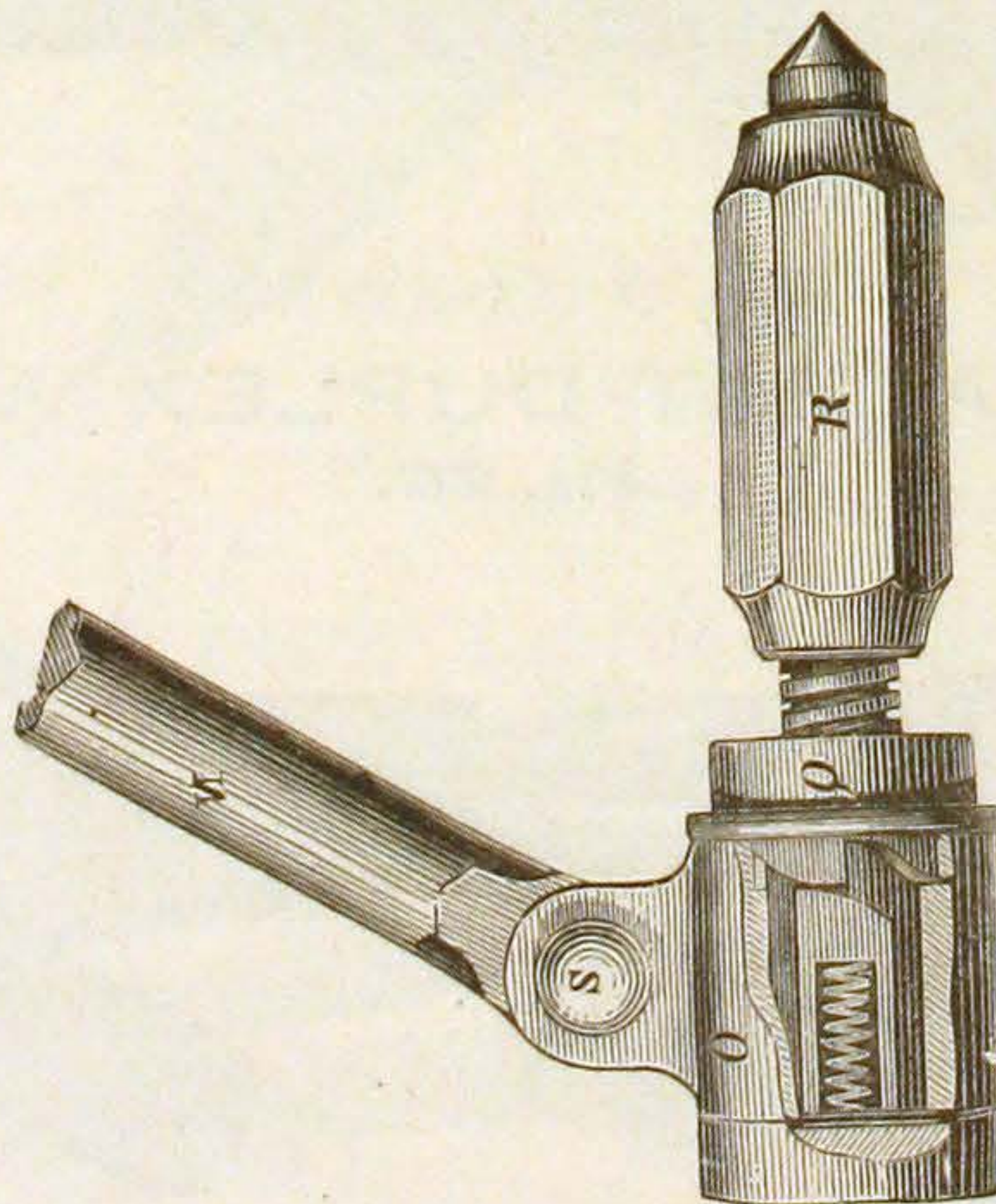
Fig. 291.

Fig. 292.

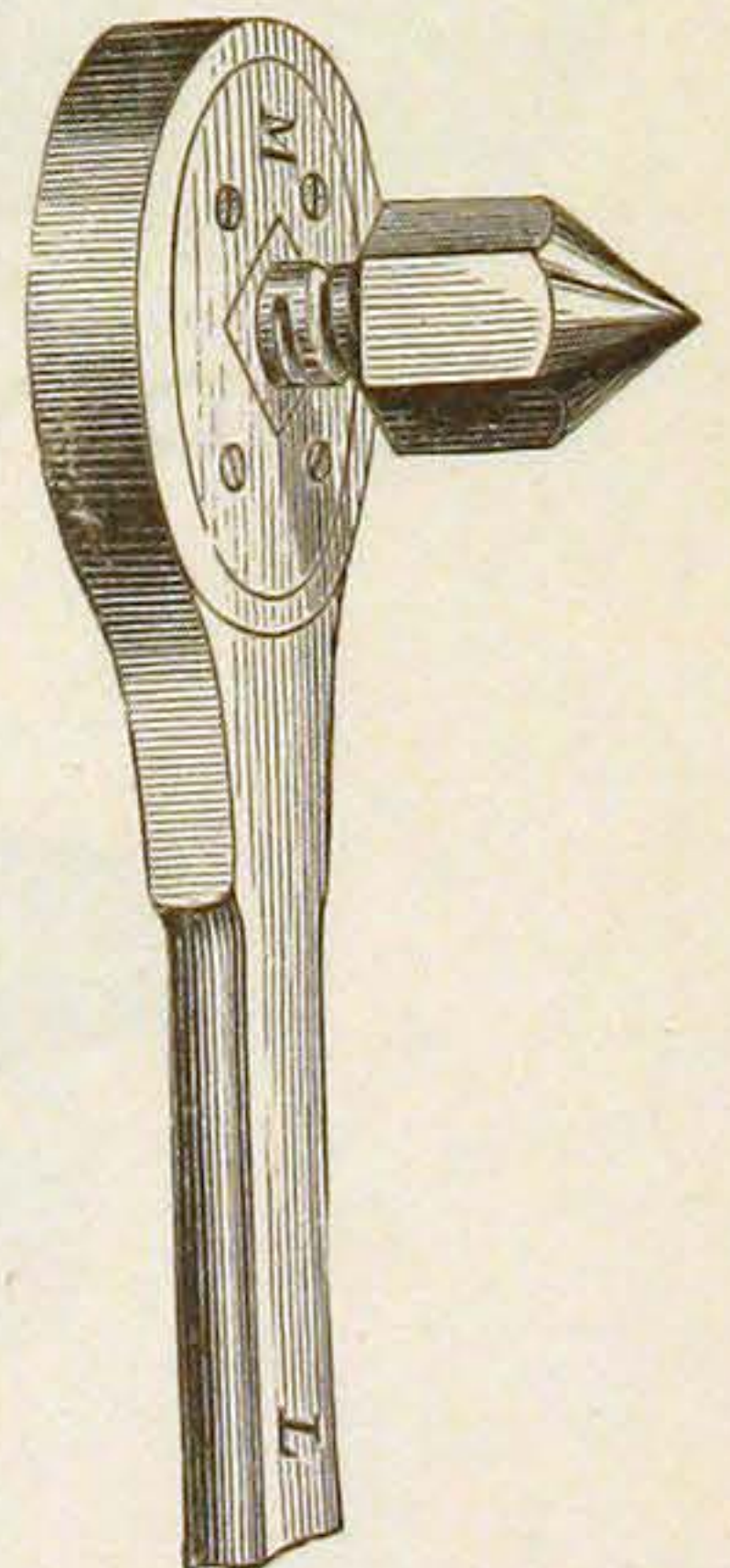
Fig. 293.



A.  
Duplex Ratchet.  
Sizes, 12, 14, 16, 18 and 22 in.



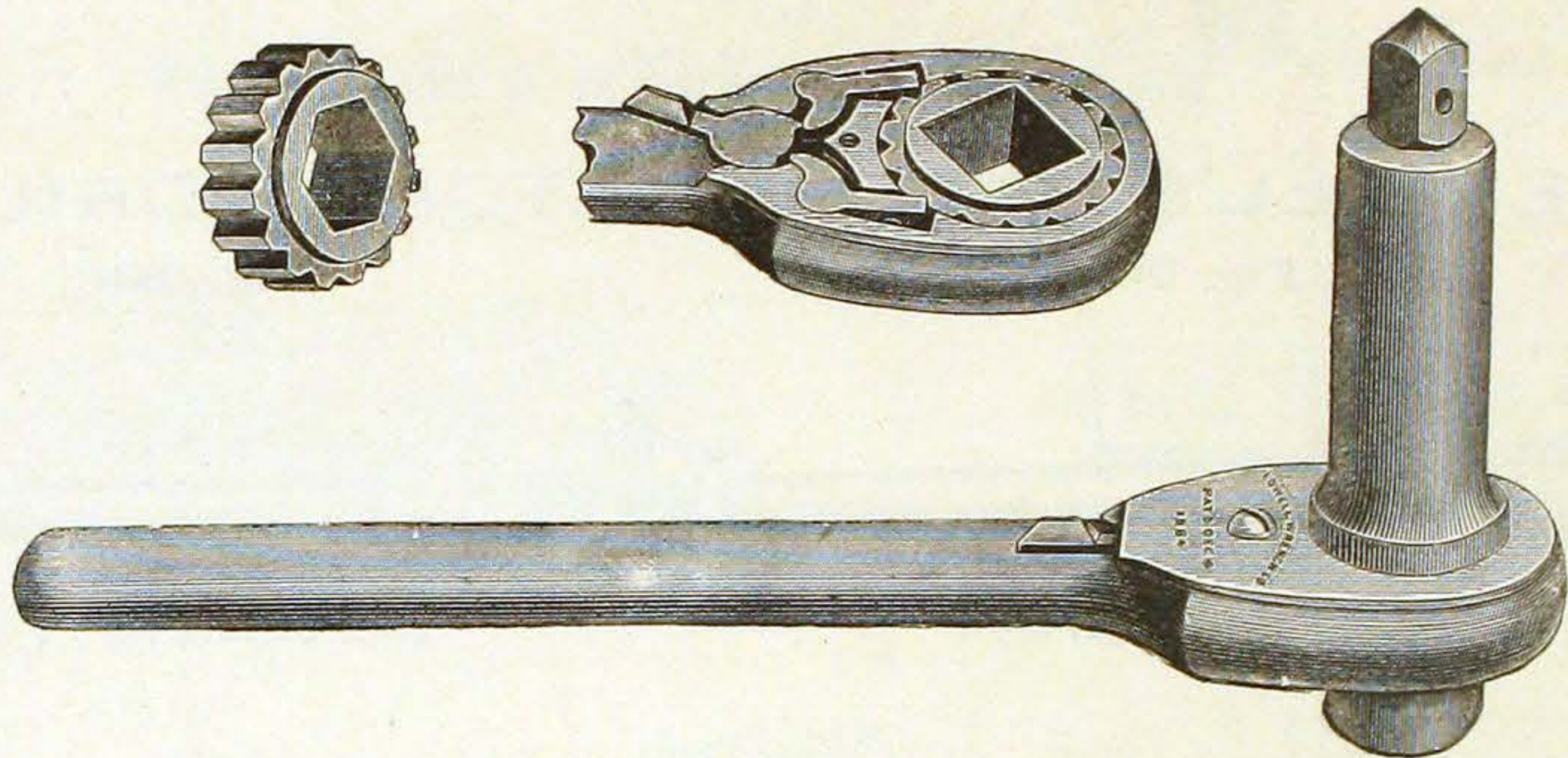
D.  
Swivel Ratchet.  
One size, 14 in.



C.  
Ratchet for Confined Places.  
One size, 14 in.

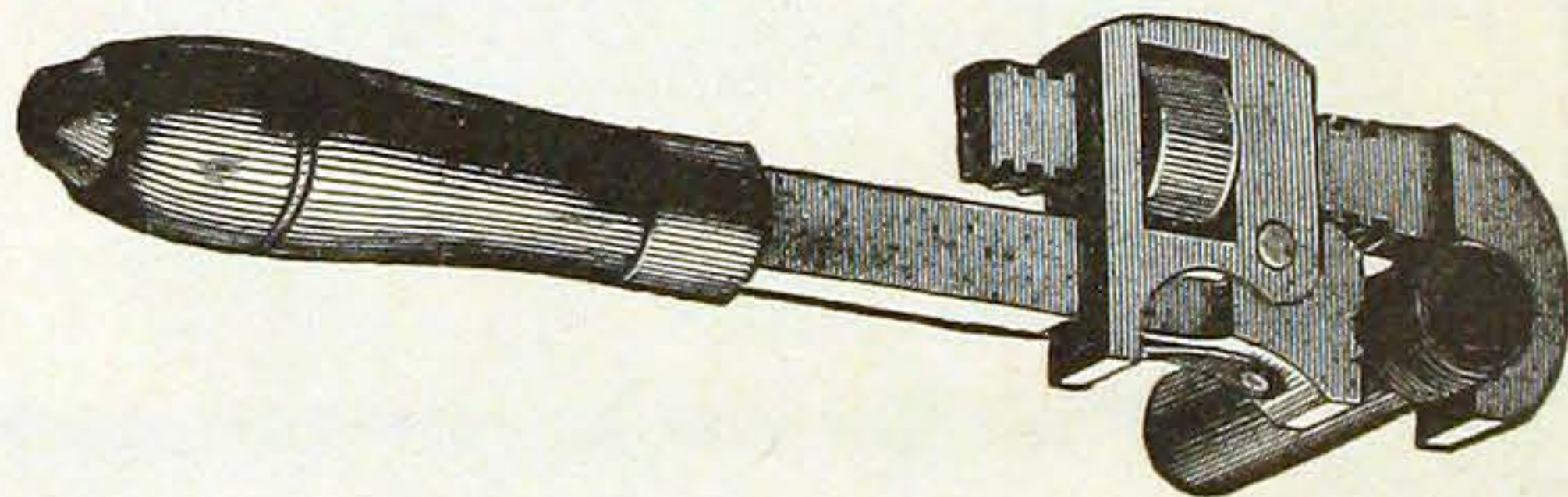


# PIPE AND RATCHET WRENCH. MOORE'S TRIPLE ACTION RATCHET WRENCH.

**Fig. 294.**

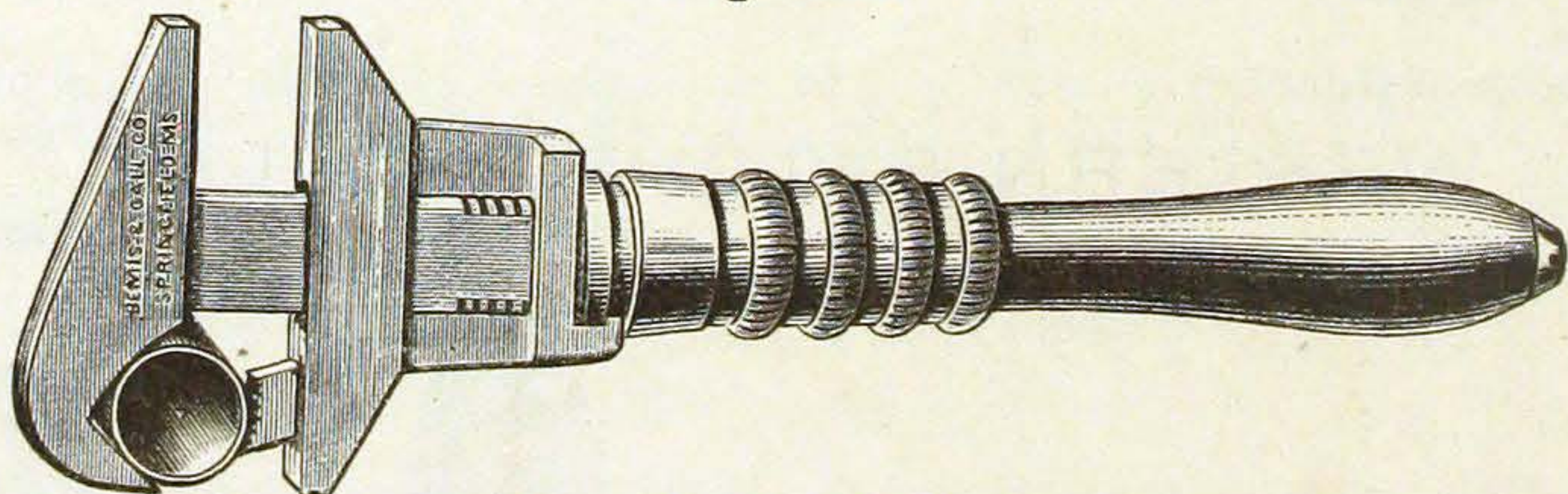
Wrench, No. 1, 8 in. No. 2, 10 in. No. 3, 15 in. No. 4, 17 in.  
Drill, No. 1, 8 in. No. 2, 10 in. No. 3, 15 in. No. 4, 17 in.

## STILLSON'S PATENT WRENCH.

**Fig. 295.**

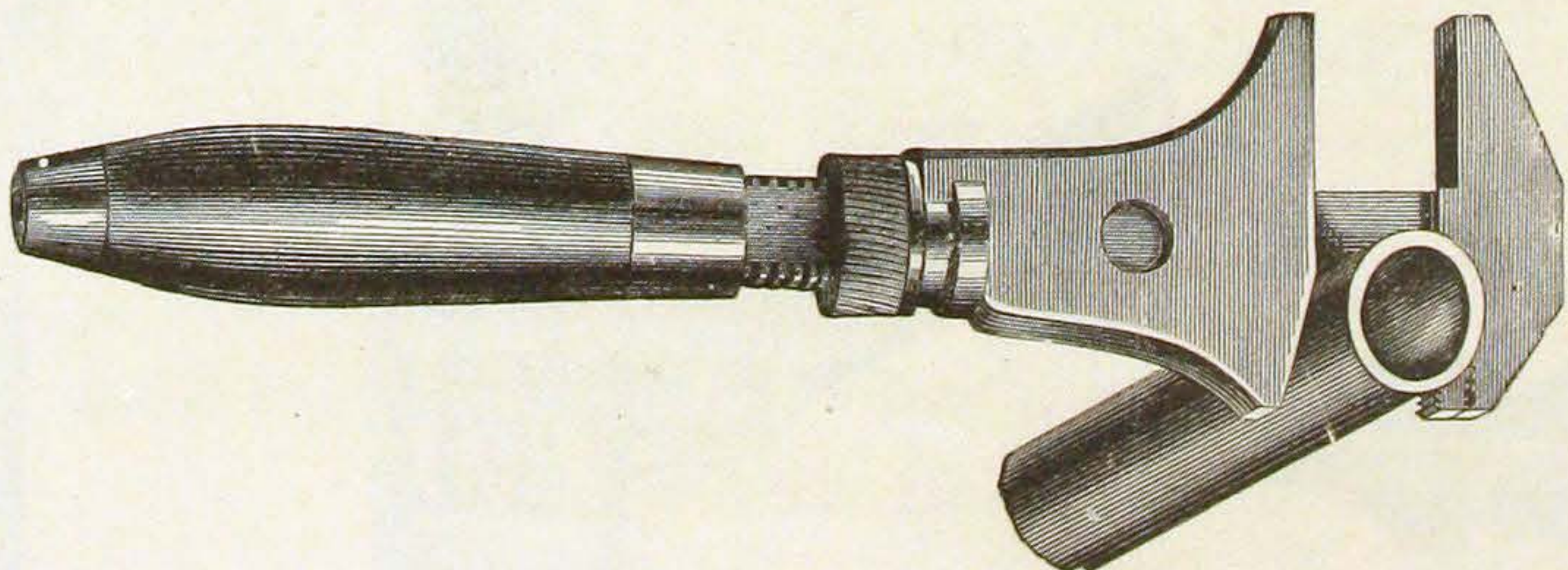
Sizes, 6, 8, 10, 14, 18, 24, 36 and 48 inches.

## BRIGG'S COMBINATION WRENCH.

**Fig. 296.**

Sizes, 10, 12 and 15 inch.

## DAVIS' PATENT DUPLEX WRENCH.

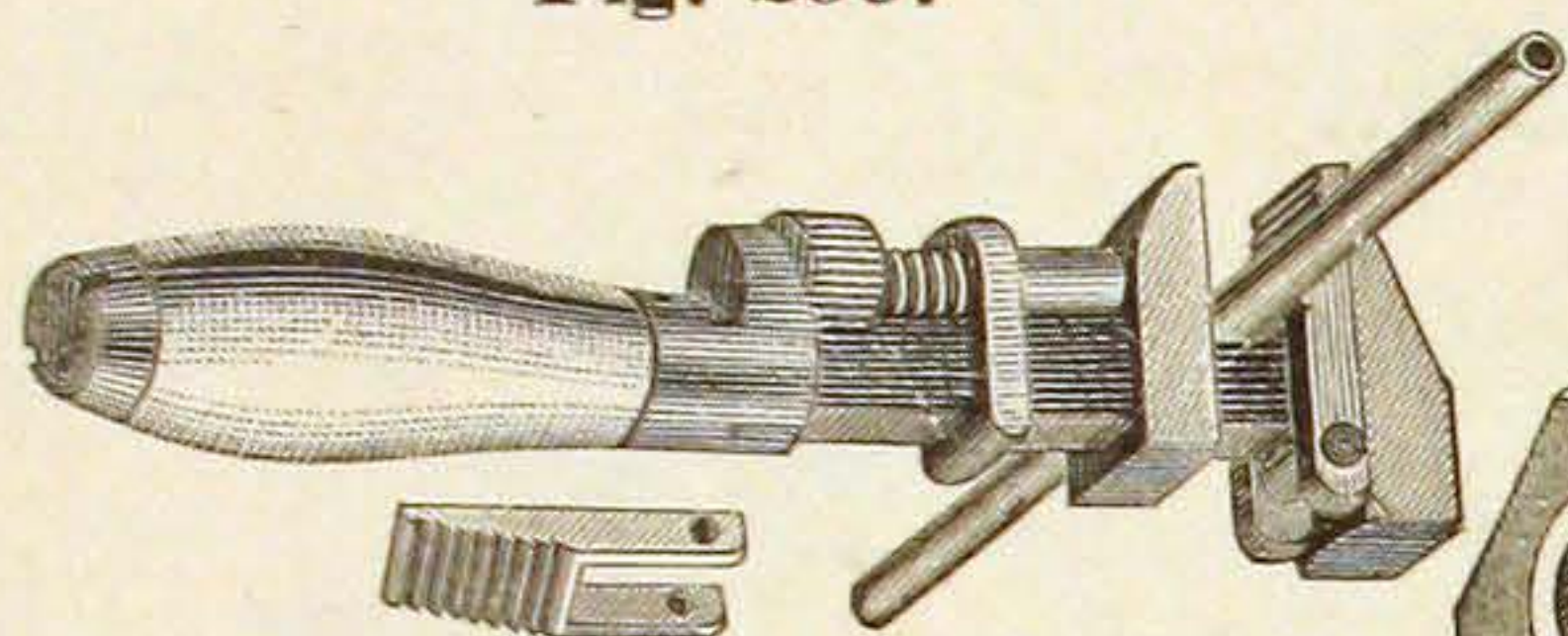
**Fig. 297.**

Sizes, 8, 12, 15 and 18 inch.



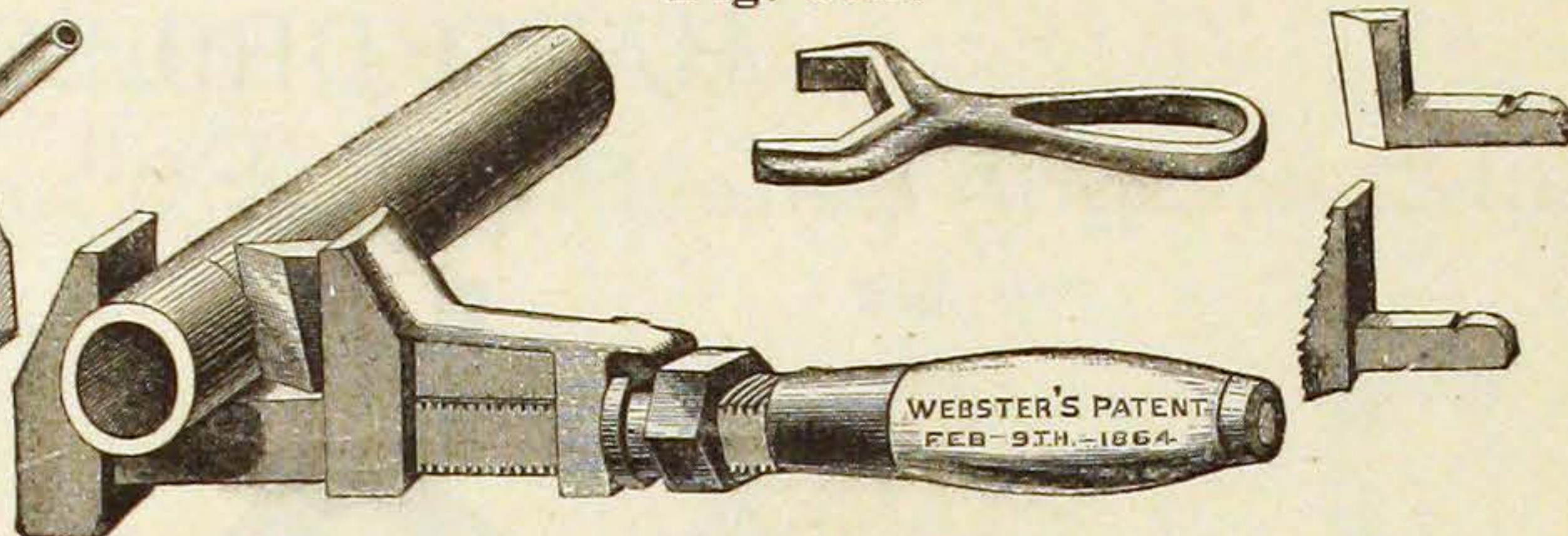
AUXILLARY JAWS.

Fig. 299.



WEBSTER'S PAT. WRENCH.

Fig. 298.

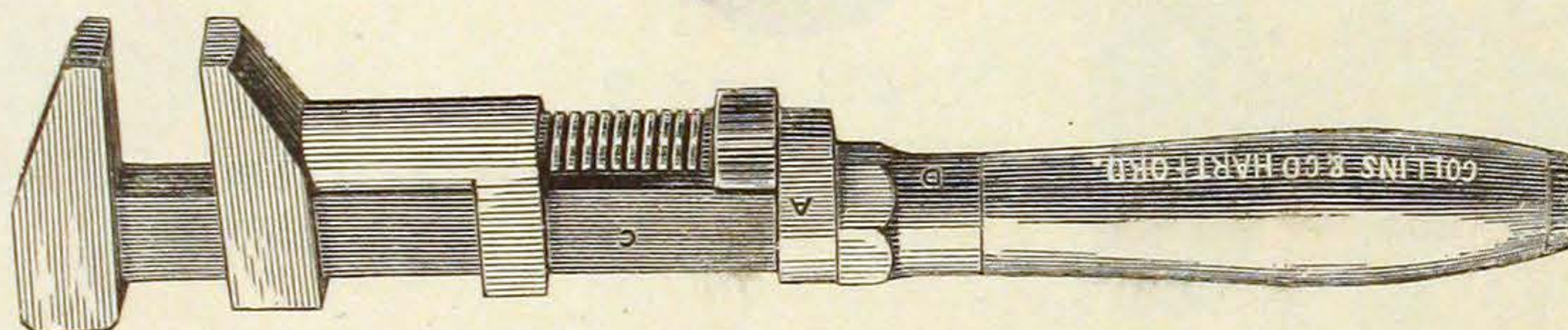


For 6, 8, 10, 12 and 15 in. Wrenches.

Sizes, 12, 15, 18 and 21 in.

COLLIN'S AND COE'S PATENT WRENCHES.

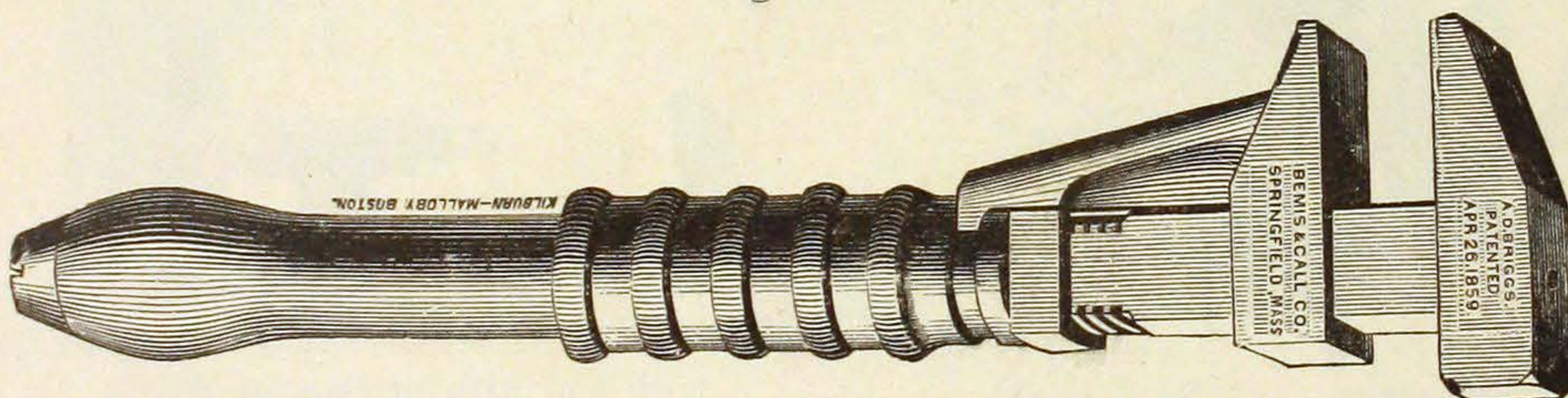
Fig. 300.



Bright or Black sizes, 6, 8, 10, 12, 15, 18, 21 and 24 in.

BRIGG'S PATENT WRENCH.

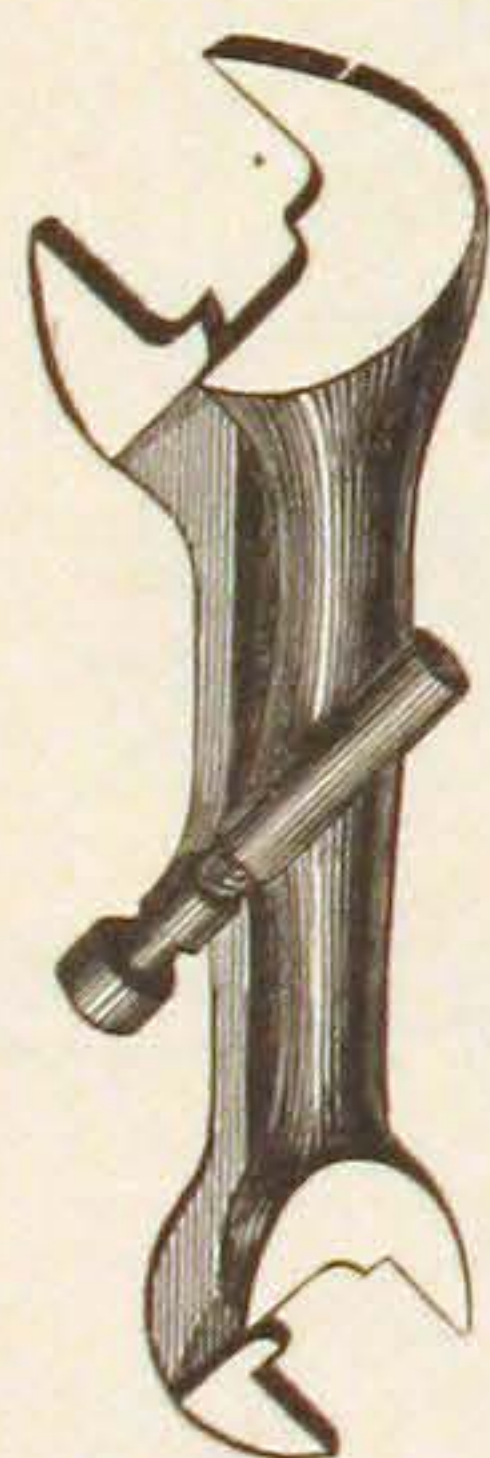
Fig. 301.



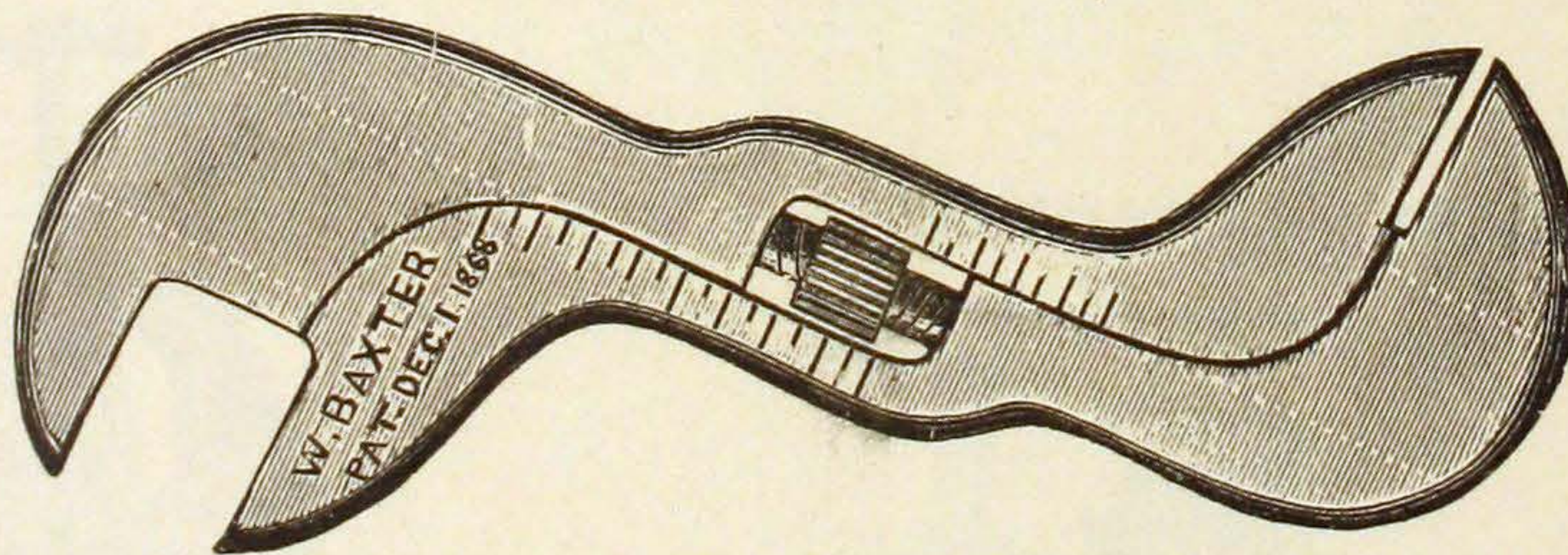
Sizes, 10, 12, 15 and 18 in.

BAXTER'S PATENT WRENCHES.

Fig. 302.



Old Style.

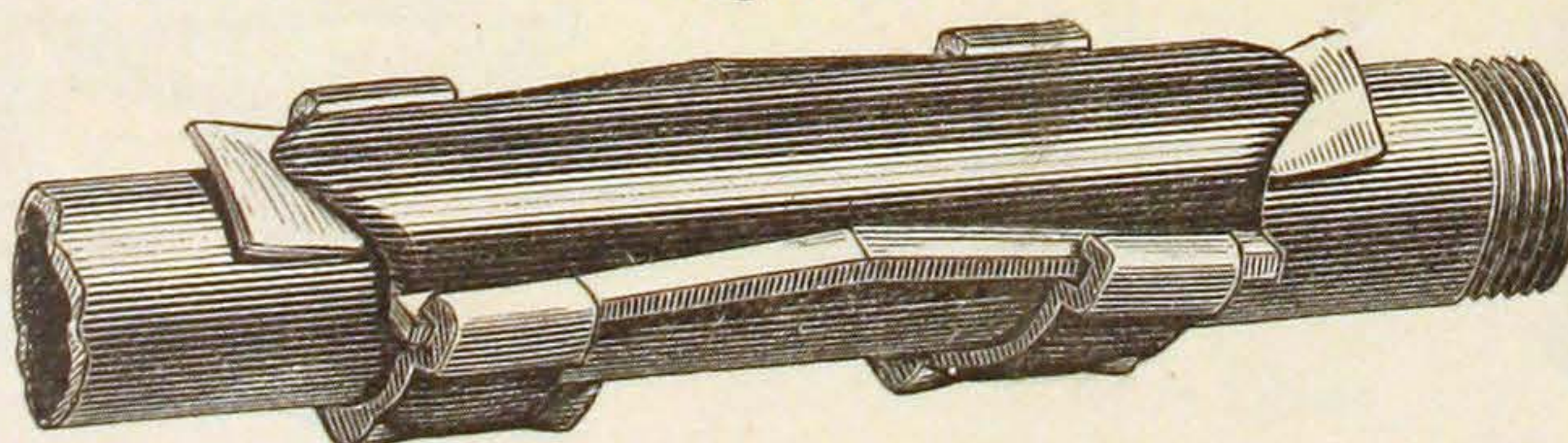


New Style.

Sizes, 4, 6, 8, 10, 12 and 15 in.

PATENT PIPE LEAK STOPPERS.

Fig. 303.



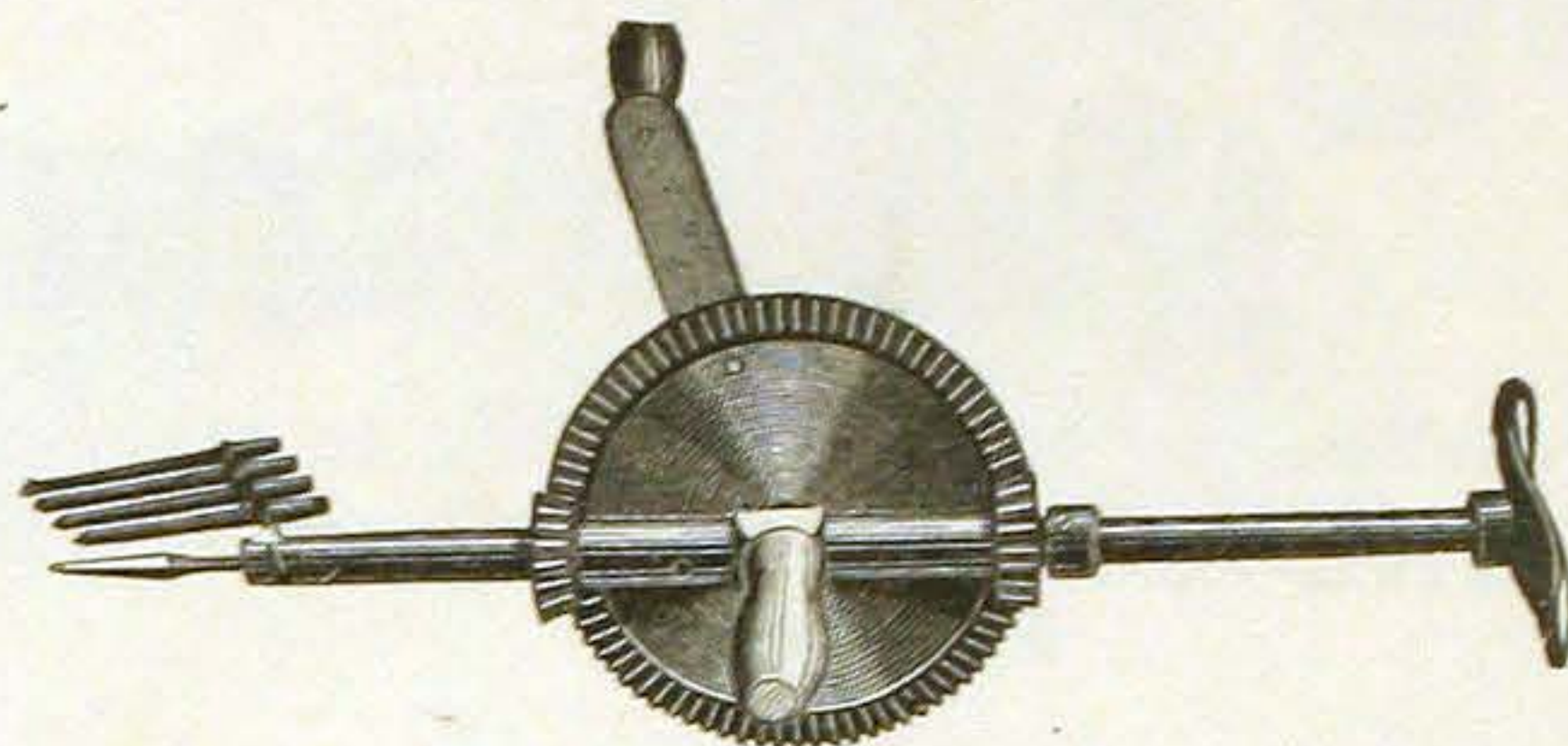
For  $\frac{1}{2}$ ,  $\frac{3}{4}$ , 1,  $1\frac{1}{4}$ ,  $1\frac{1}{2}$ , 2 and  $2\frac{1}{2}$  in. Pipe.



## HAND DRILLS.

Breast Drill.

Fig. 304.

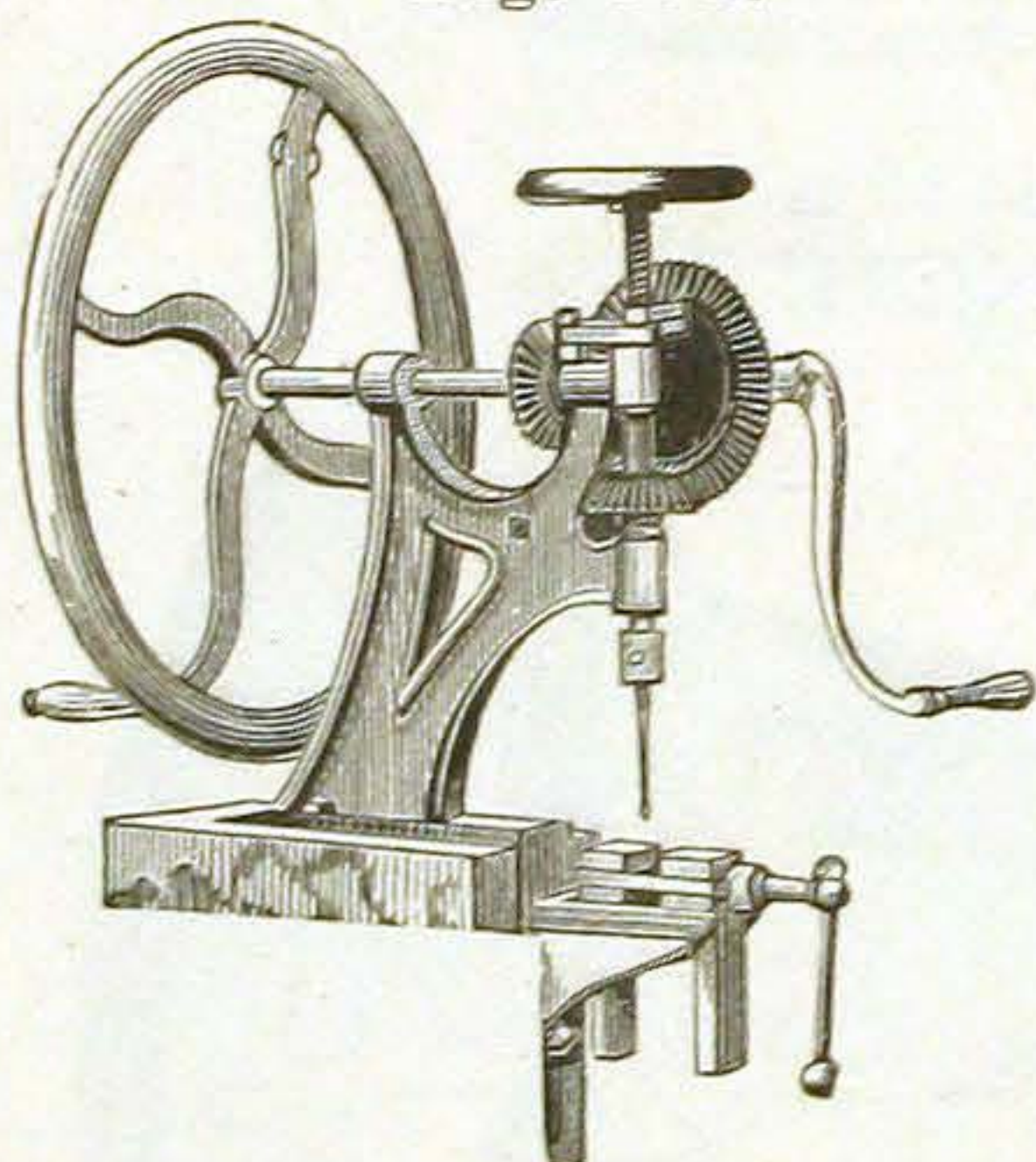


Nos. 1 and 2.

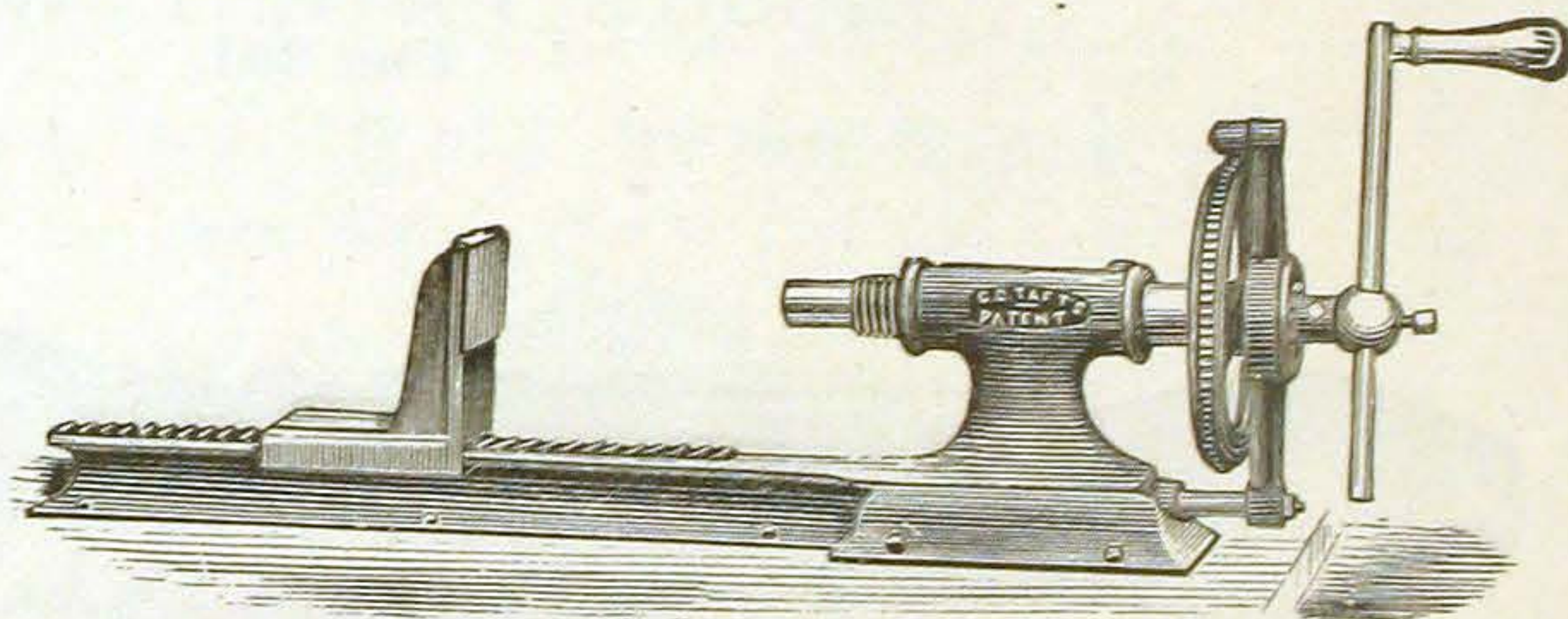
Coe's Patent Drill with Vise. Horizontal Drill.

Fig. 305.

Fig. 306.

No. 0 weight  
No. 2 " 200 lbs.

No. 1 weight



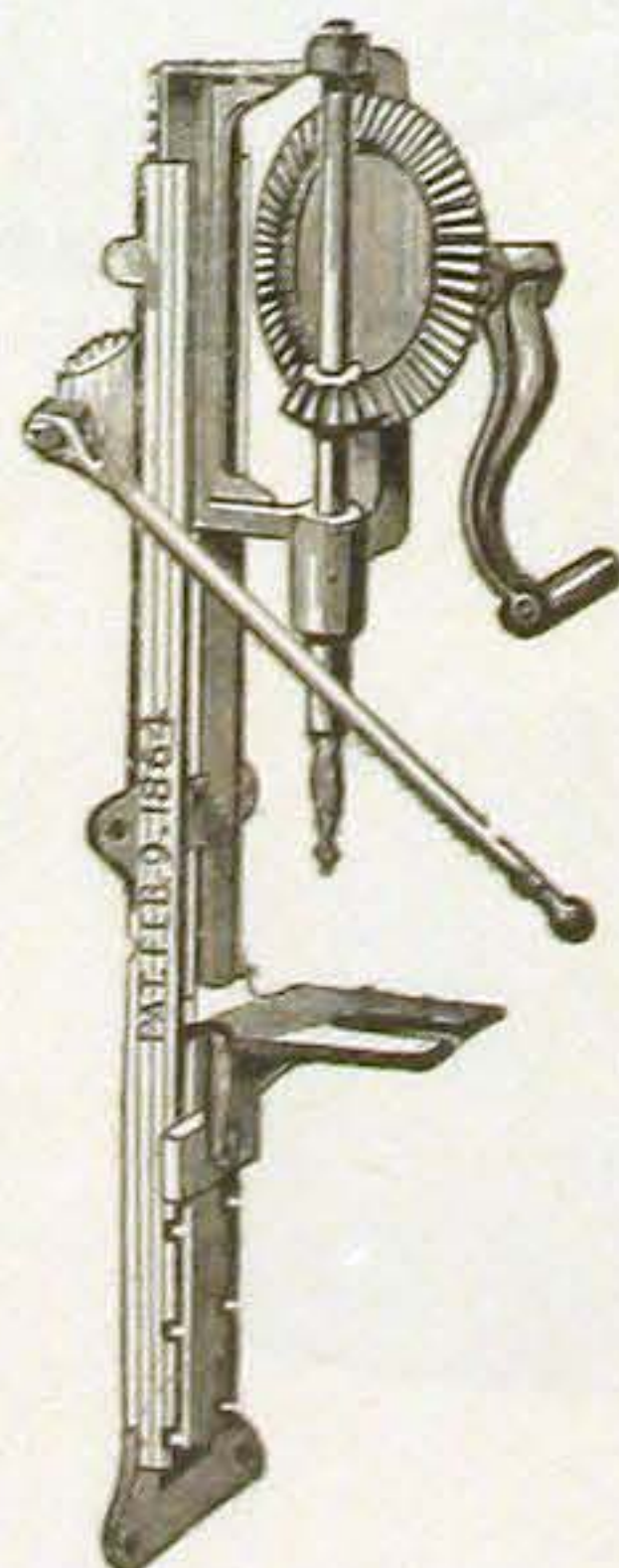
With and without Balance Wheel.

Whiton's Drill.

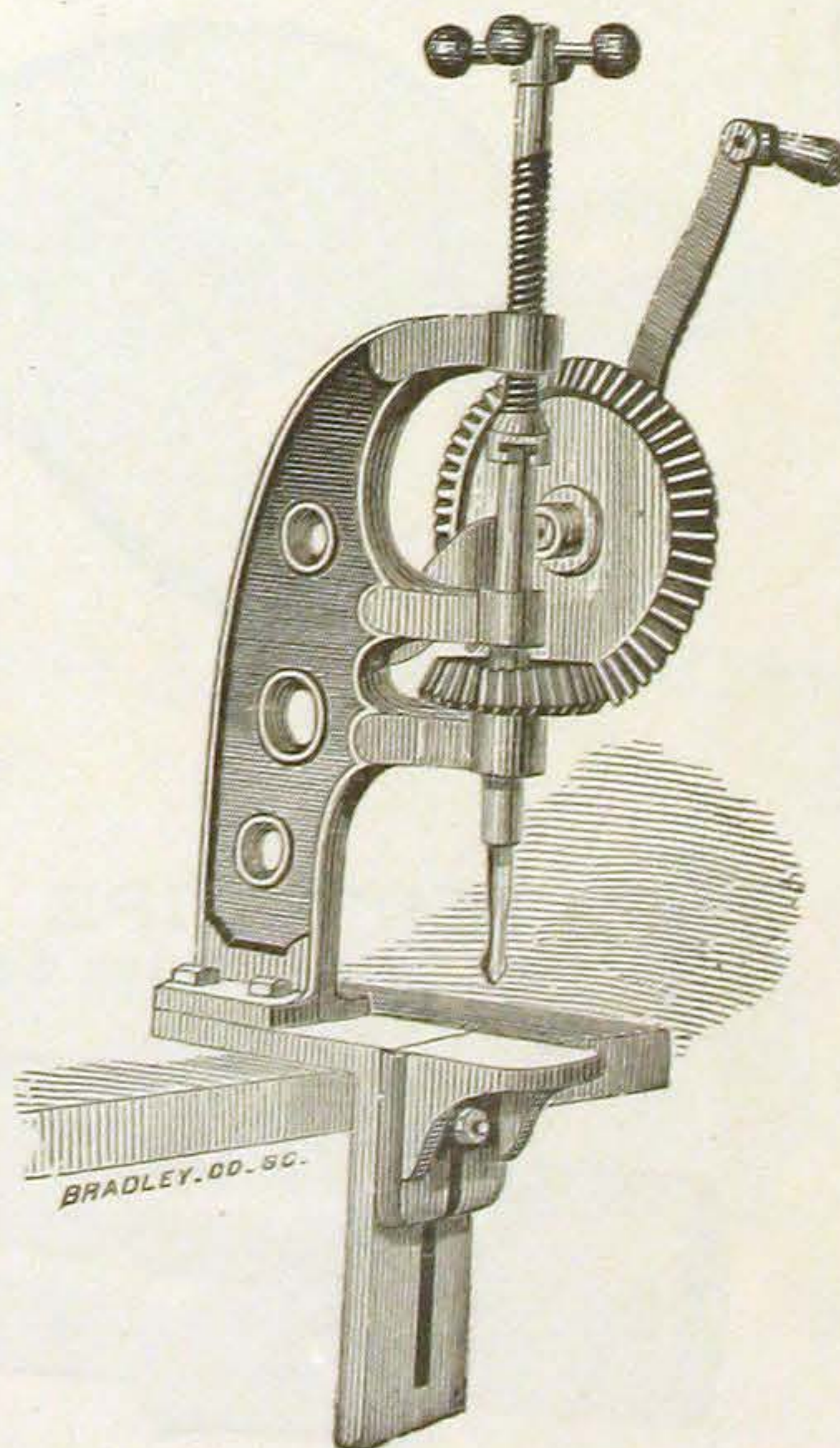
Fig. 308.

Stiver's Patent Drill.

Fig. 307.



With Lever.



Platform can be raised or lowered.



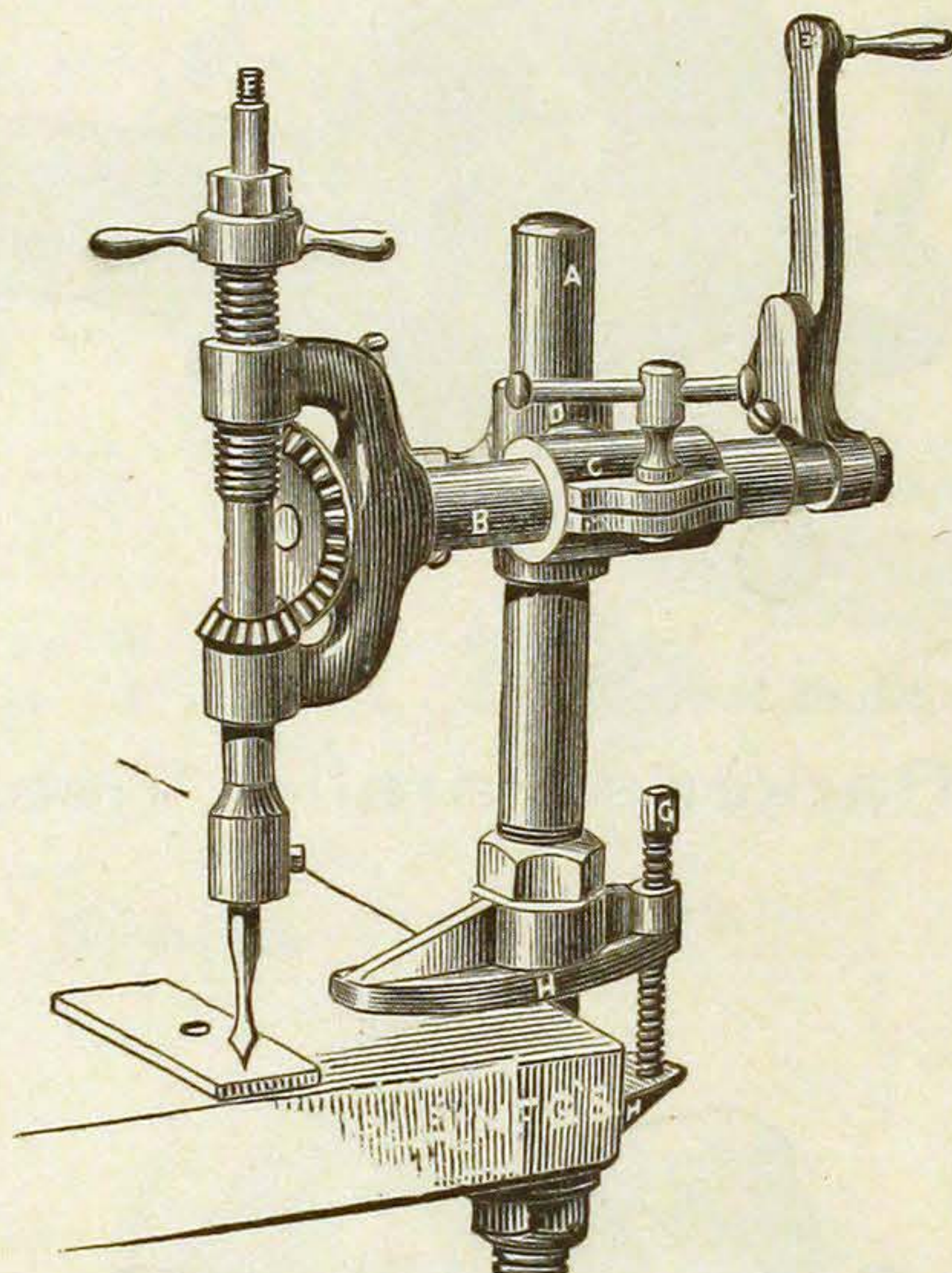
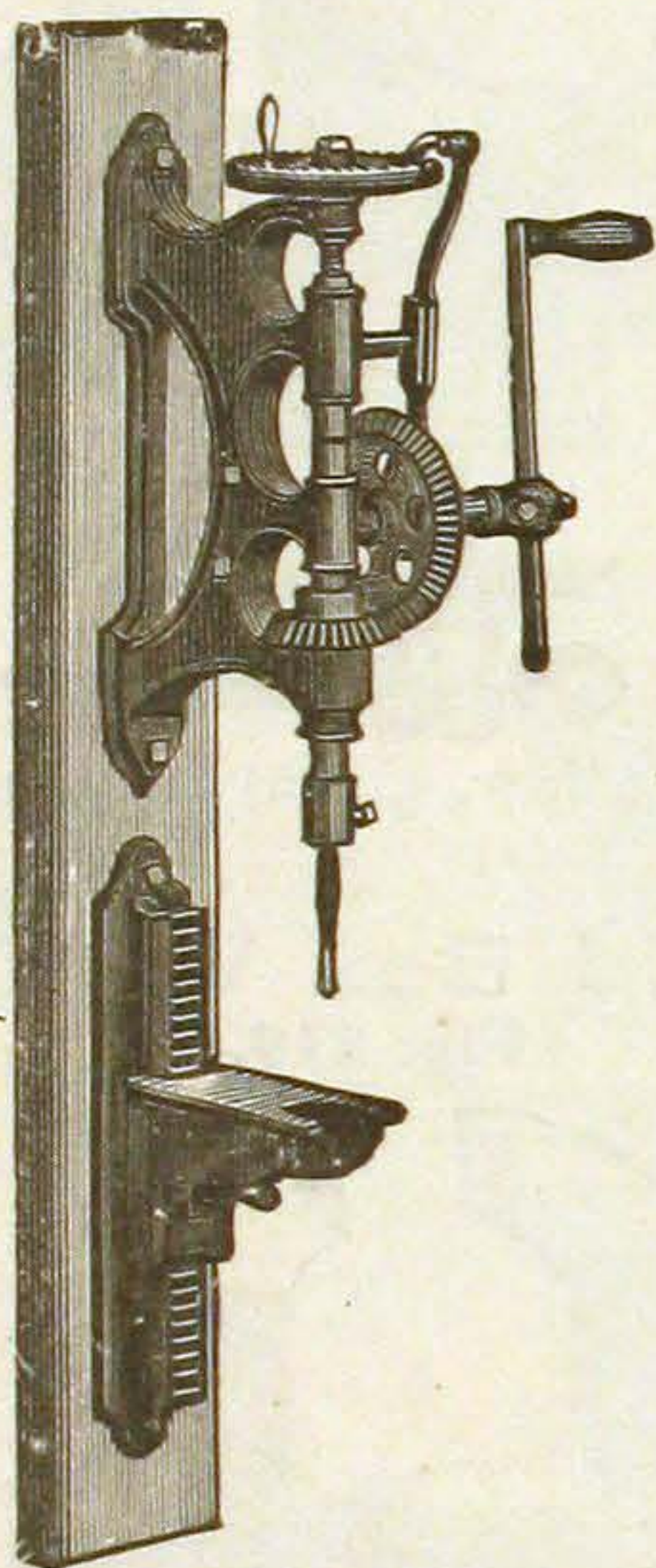
## HAND DRILLS.

Upright Self-Feeding Drill.

Universal Angular Drill.

Fig. 309.

Fig. 310.



Nos. 1 and 2.

With or without Balance Wheel.

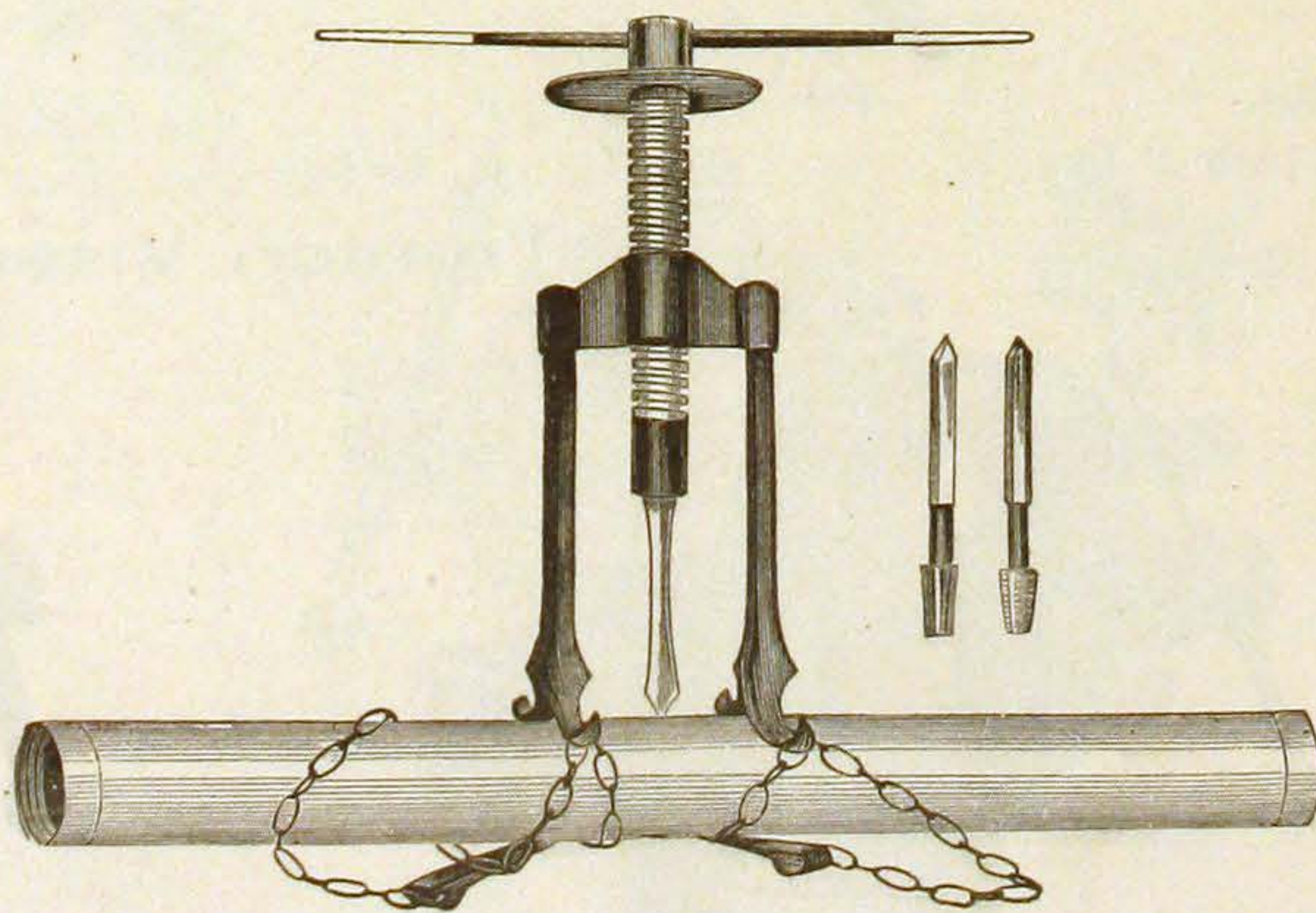
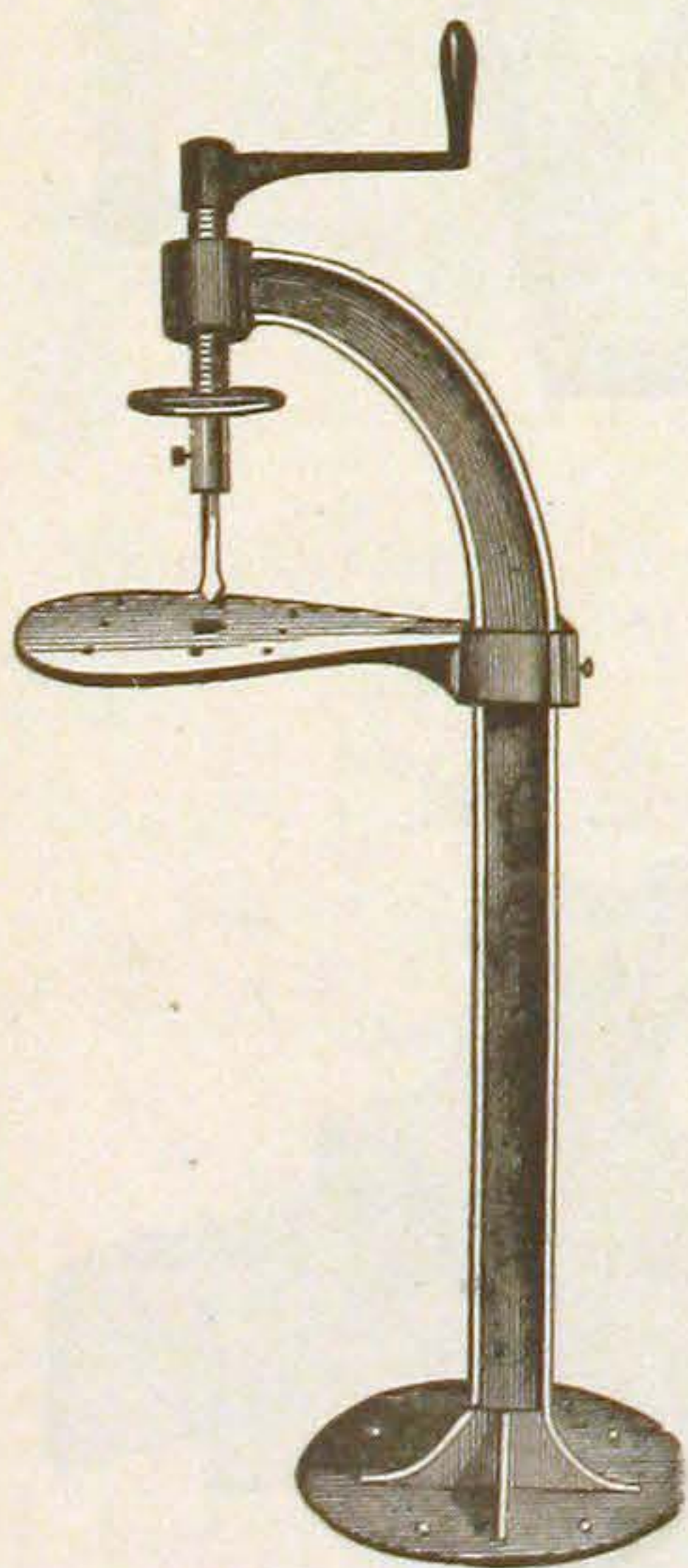
Nos.	1	2	3
Length of Shaft,	20	24	27 inches.

Drill Press.

Drill Stock, for Drilling Street Mains.

Fig. 311.

Fig. 312.



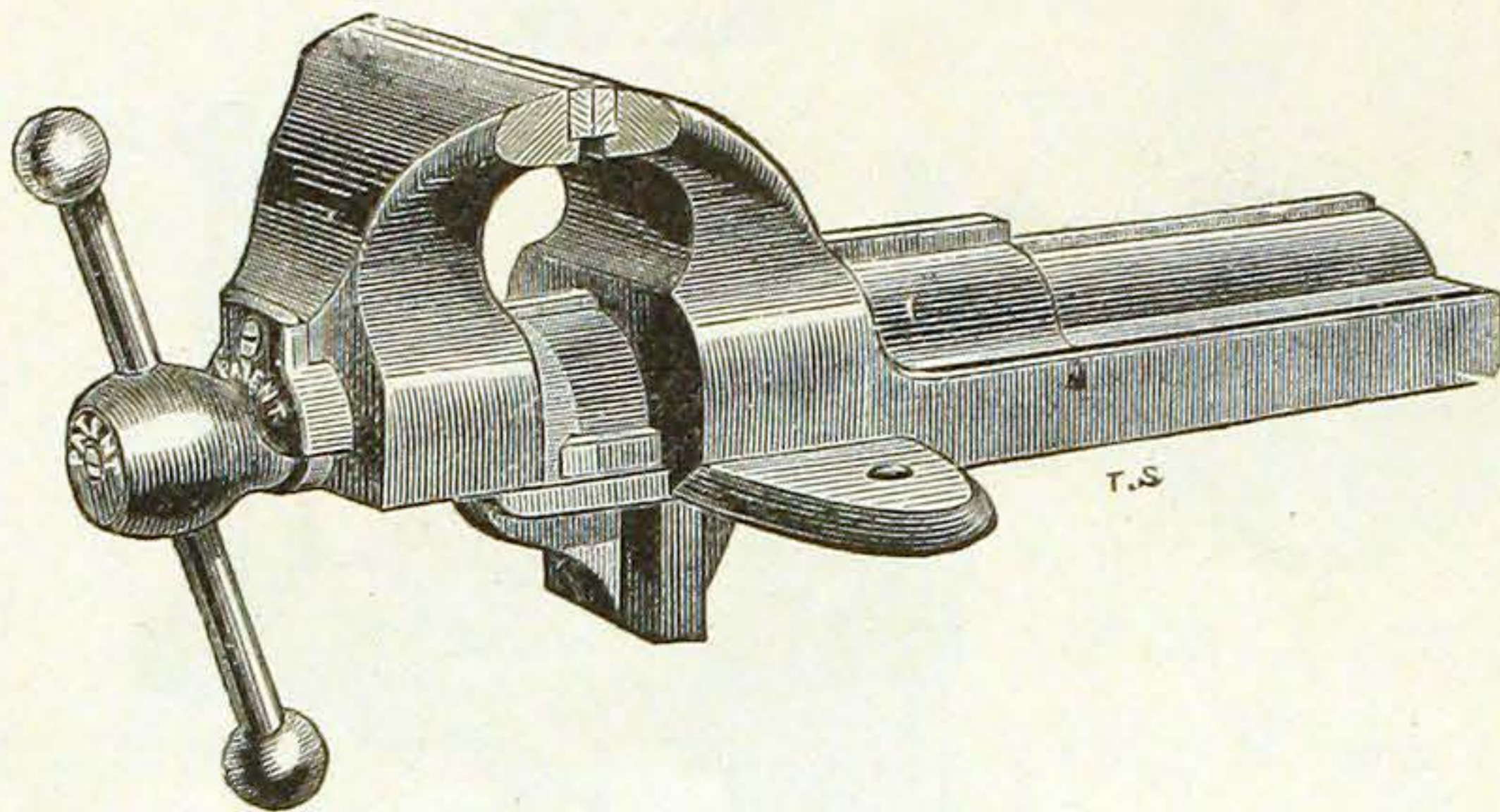
With Drills.

With Drills.

For  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $\frac{7}{8}$  and 1 inch.



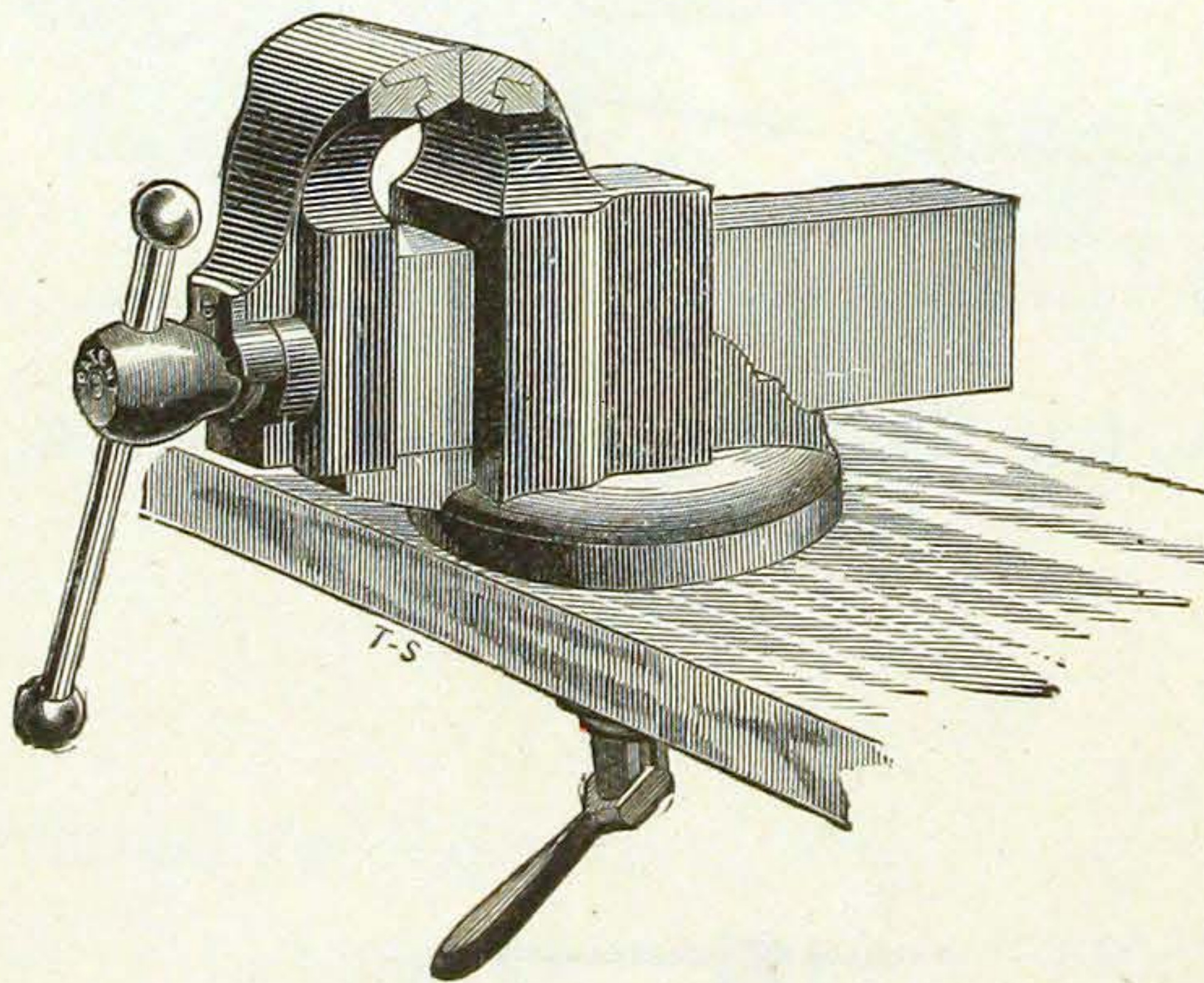
## BENCH VISES.

Parker's Oval Slide Vise.  
Fig. 313.

Nos.	00	0	1	2	3	4
Length of Jaw,	2½	3	3¼	3½	4	4½ inches.

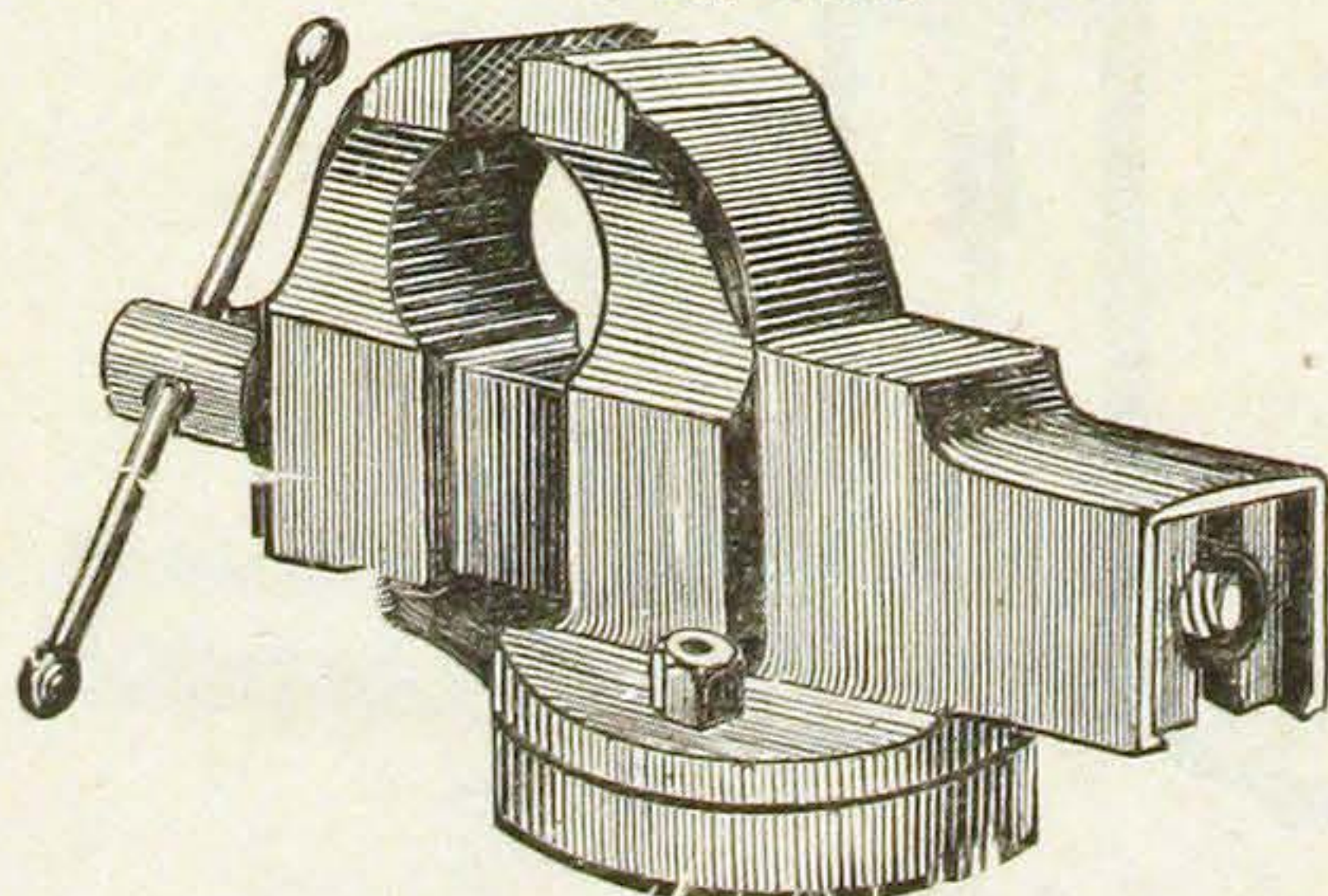
Parker's Parallel Vise.

Fig. 315.



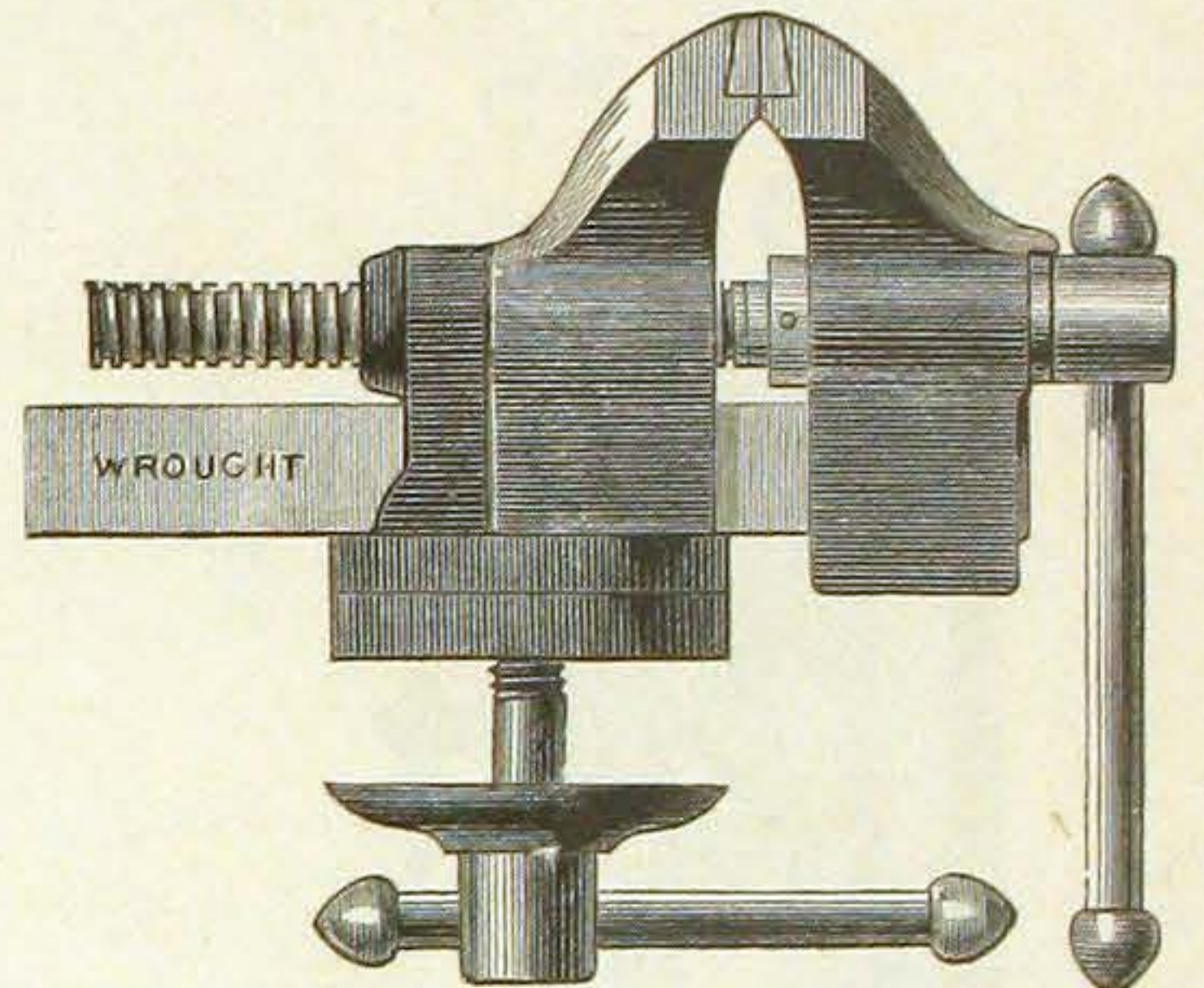
Nos.	0	000	1	2	3
Width of Jaw,	2¼	3½	3¾	4¼	4¾ inches.

Fig. 317.

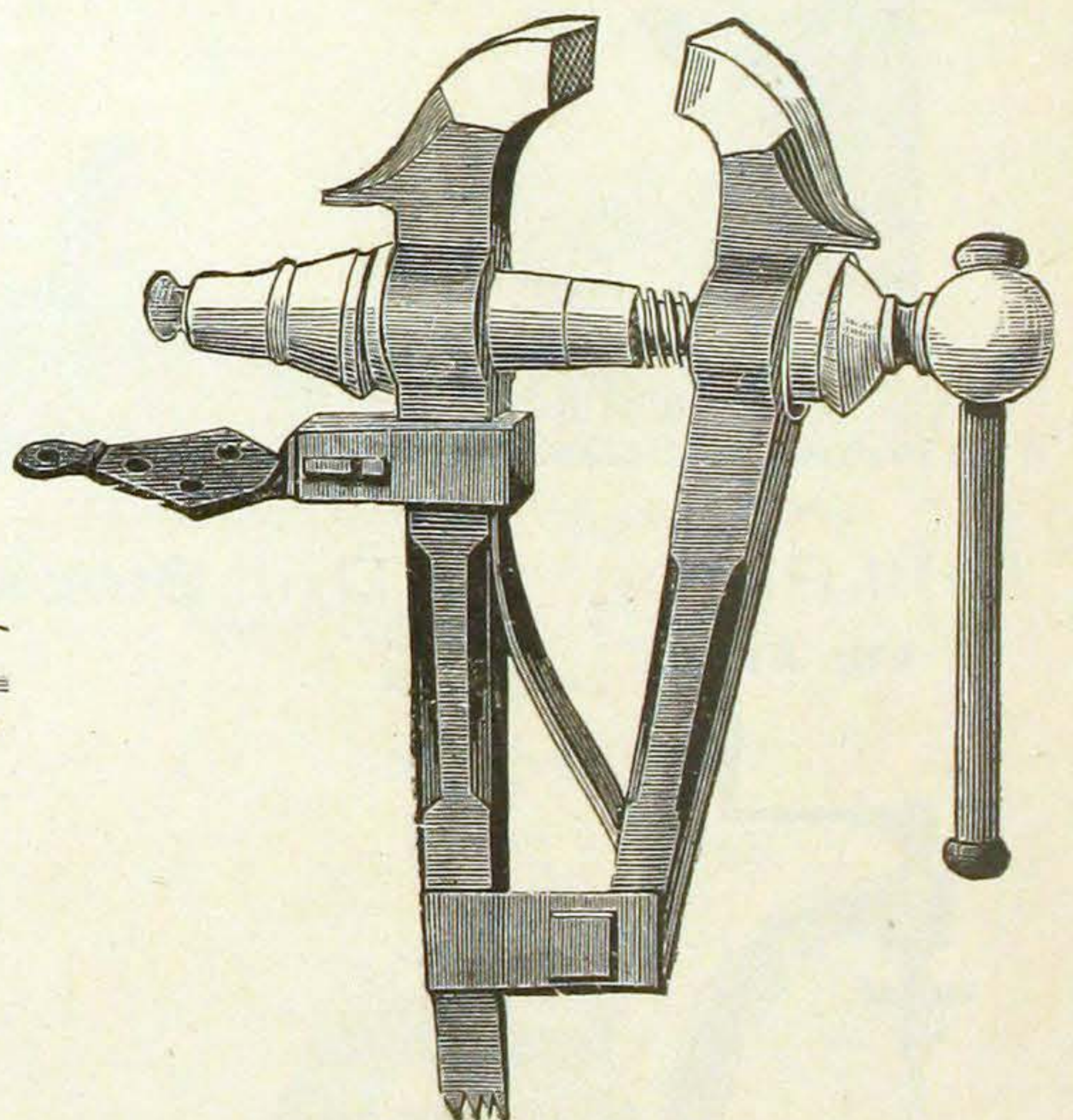


With Swivel.

Width of Jaw, 2, 2½, 3, 3½, 4, 4½, 5 and 6 inches.

Merrill's Swivel Vise.  
Fig. 314.

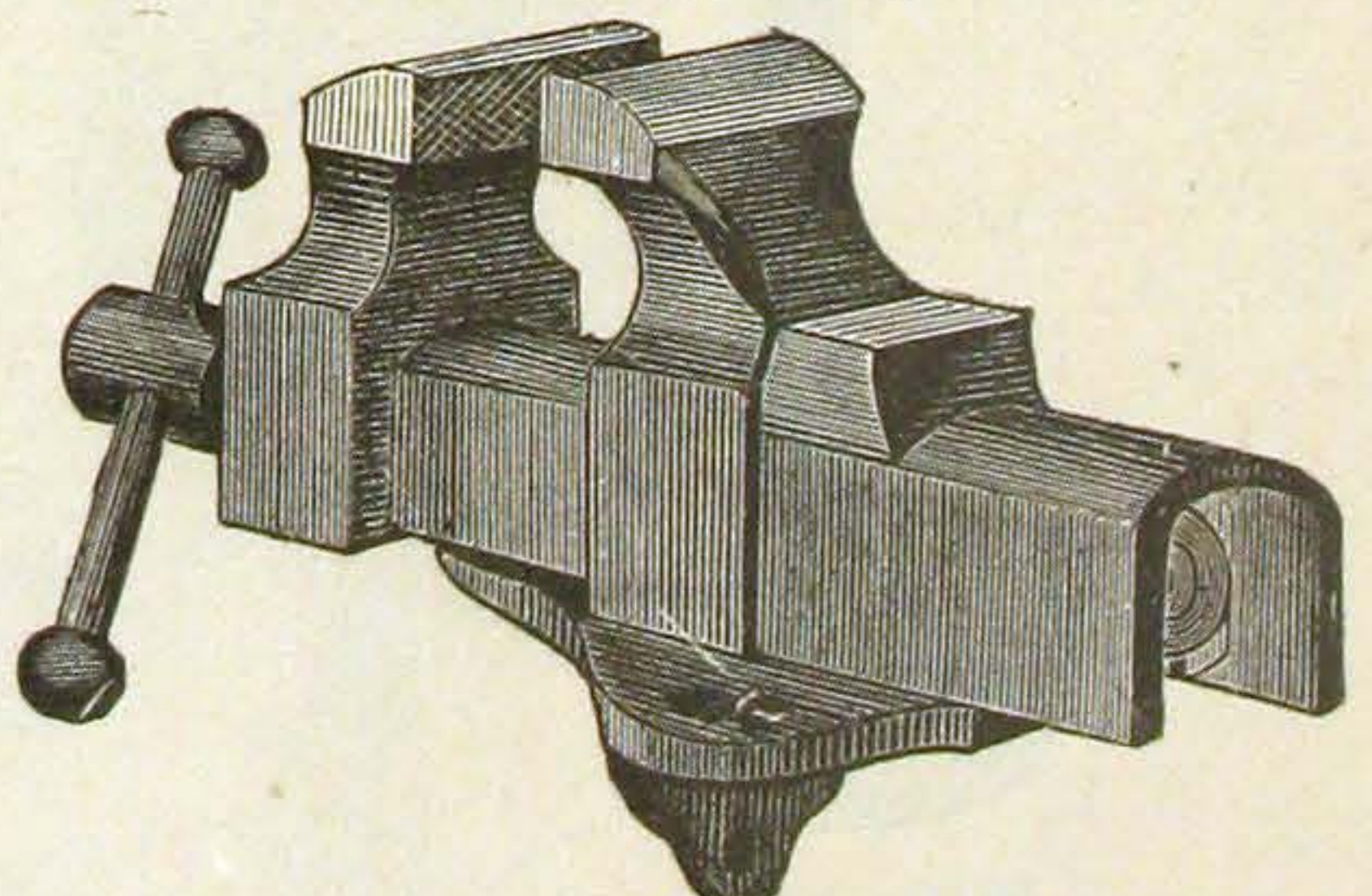
Width of Jaw, 4, 5, 6½ and 8 inches.

Solid Box Vise.  
Fig. 316.

All Weights.

## Trenton Vises.

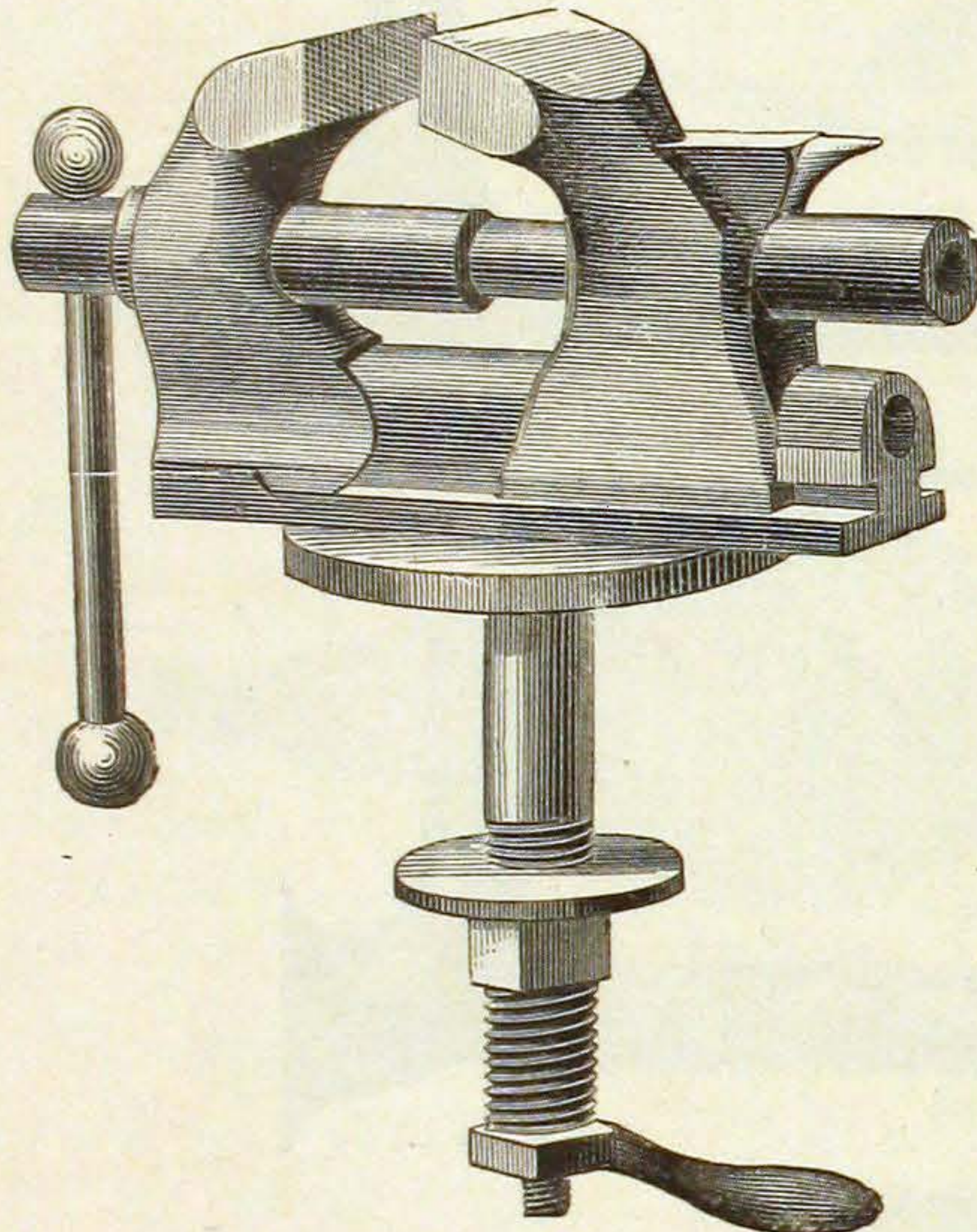
Fig. 318.





## VISES AND ANVIL. UNION AND BACKUS VISES, COMBINED.

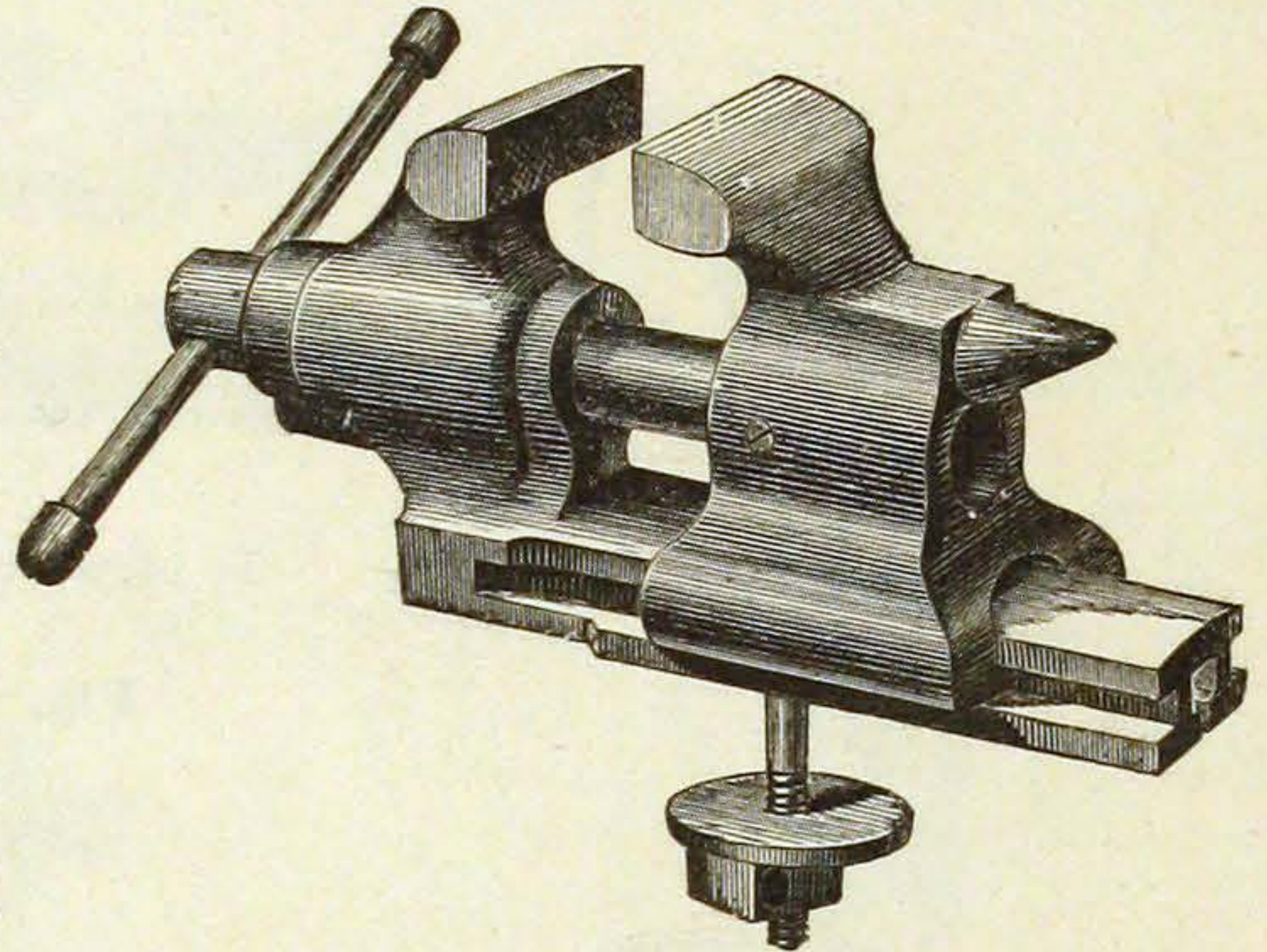
**Heavy Chipping Vise, Covered Screw.  
Fig. 319.**



All Vises, except the 7 in. sent with seats, unless otherwise ordered.

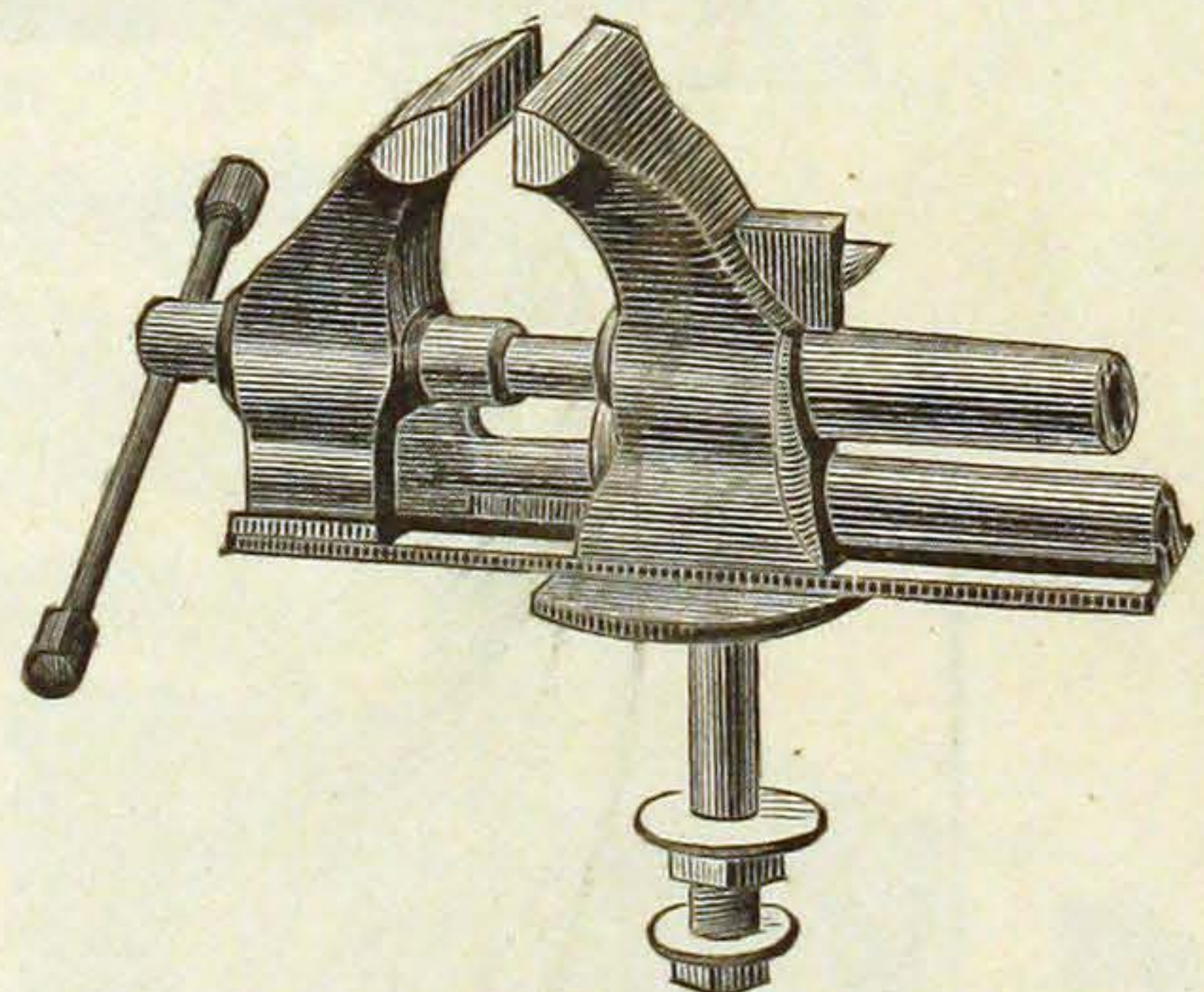
Price at Millers Falls, Mass. or 78 Beekman Street, New York.

**Heavy Chipping Vise, Open Screw.  
Fig. 320.**



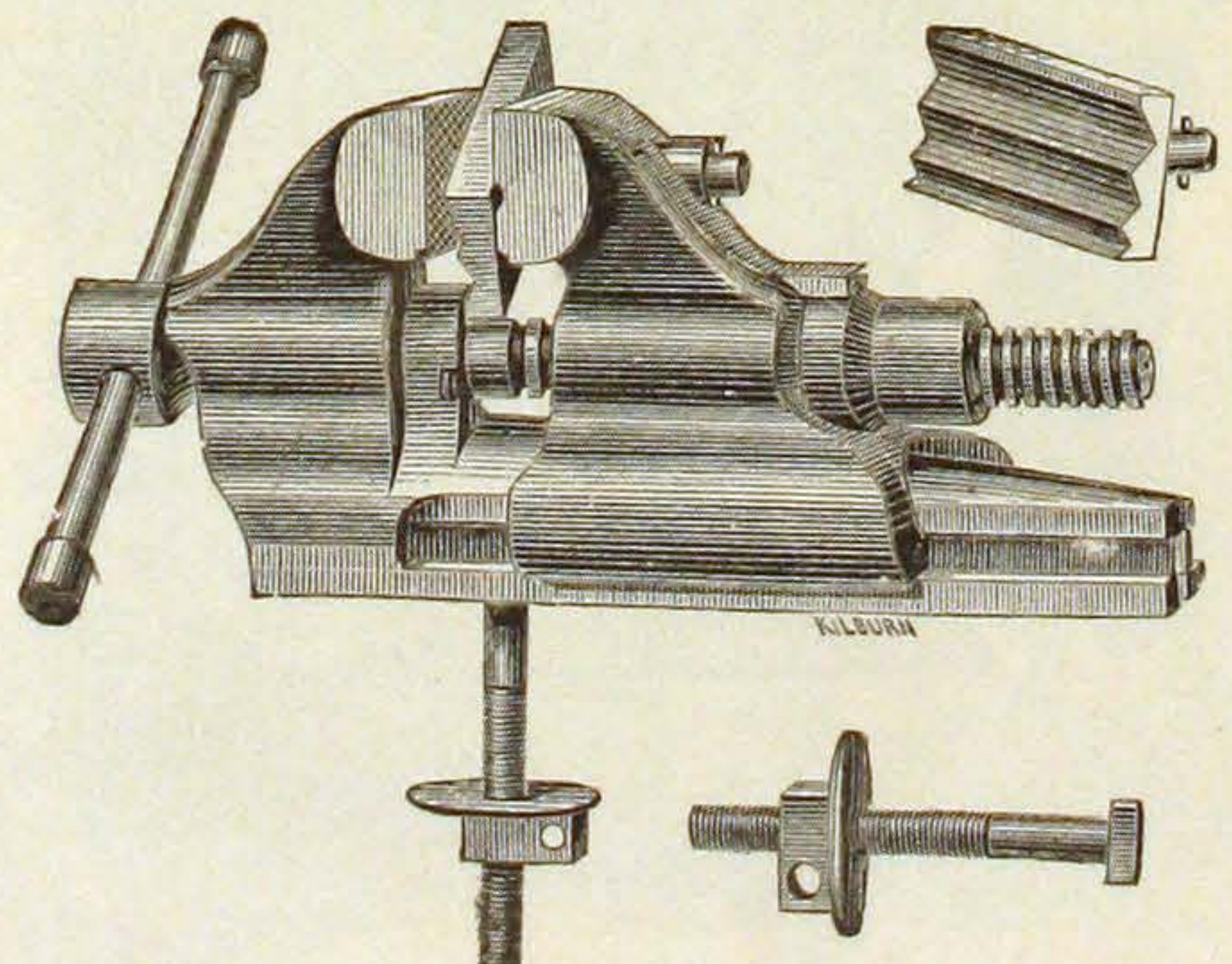
7 in. Jaw, weight, 169 lbs.

**FINISHING VISE.  
Fig. 321.**



Width of Jaw,     3     4     5 inches.  
Weight,             24     42     60 lbs.

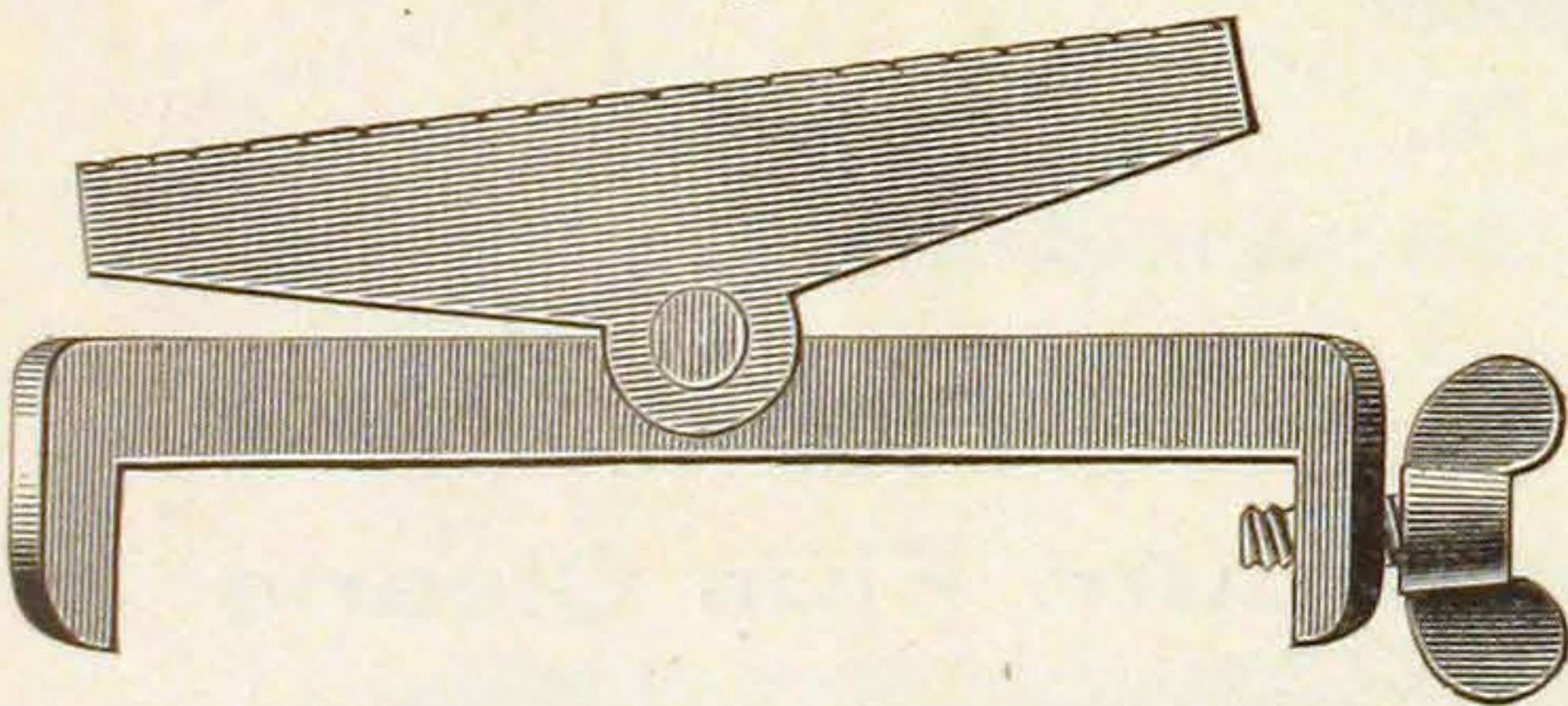
**PIPE VISE.  
Fig. 322.**



Width of Jaw,     4     5     8 inches.  
Weight,             57     79     153 lbs.

Width of Jaw,  $3\frac{1}{2}$   $1\frac{3}{4}$  2  $2\frac{1}{2}$  3  $3\frac{1}{2}$  4  $4\frac{1}{2}$  5 6 7 in.  
Weight,              $3\frac{1}{2}$  5 9 22 39 47 56 67 75 116 169 lb.

**Pat. Adjustable Vise Jaws.  
Fig. 323.**

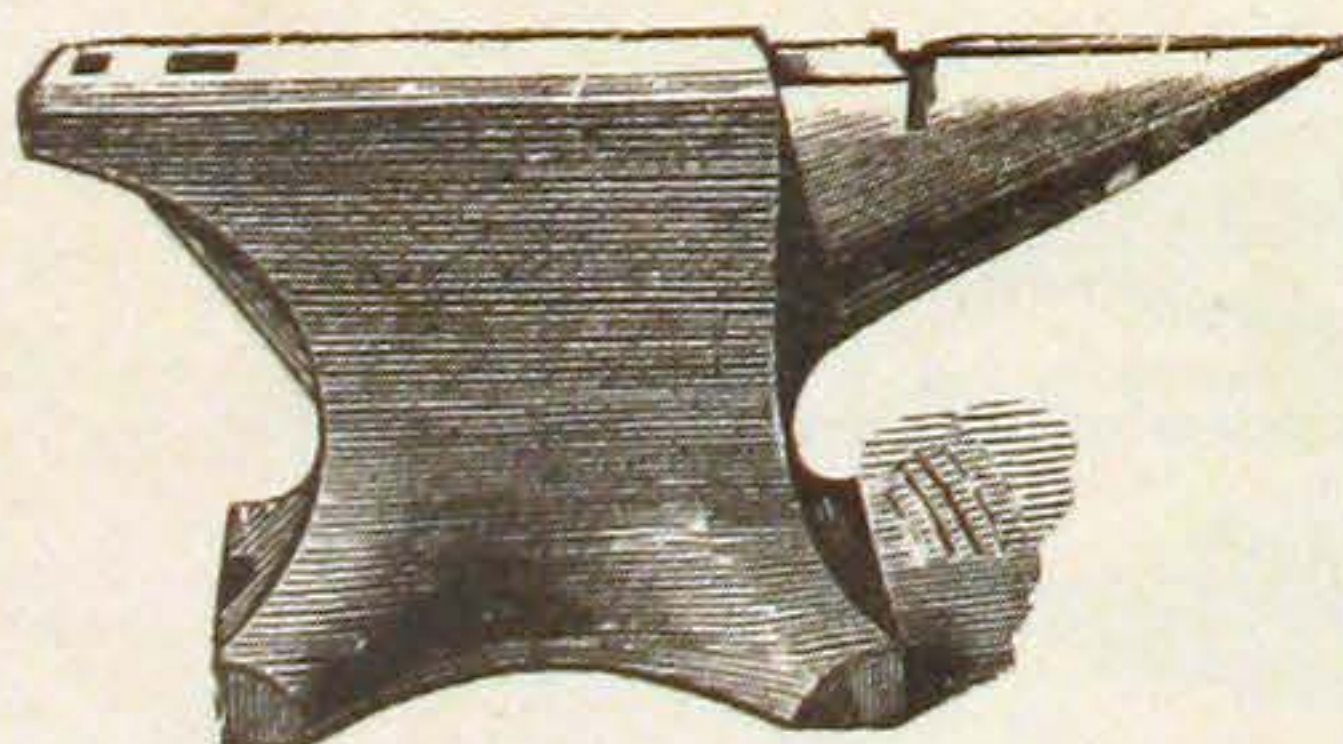


These Jaws are made of steel, and will fit any of our Vises from  $2\frac{1}{2}$  to 4 inches. We make two sizes.

No. 1 fits  $2\frac{1}{2}$  and 3 in. Vise.  
No. 2 fits  $3\frac{1}{2}$  and 4 in. Vise.

### ANVILS.

**Eagle and Peter Wright's.  
Fig. 324.**

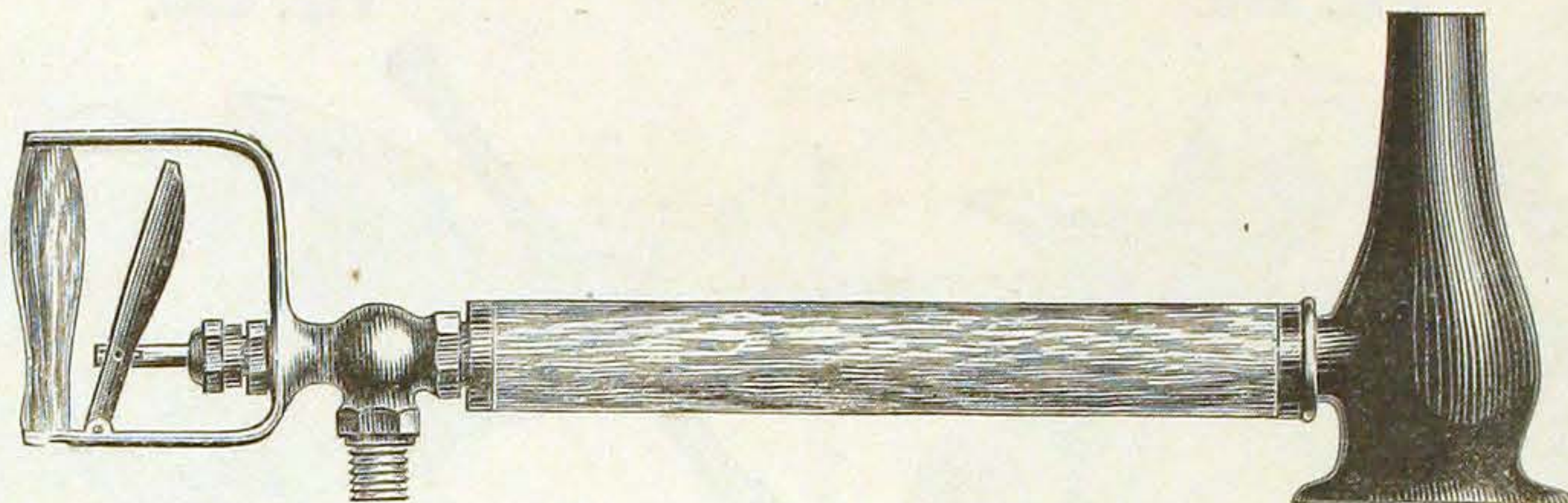


All Weights.



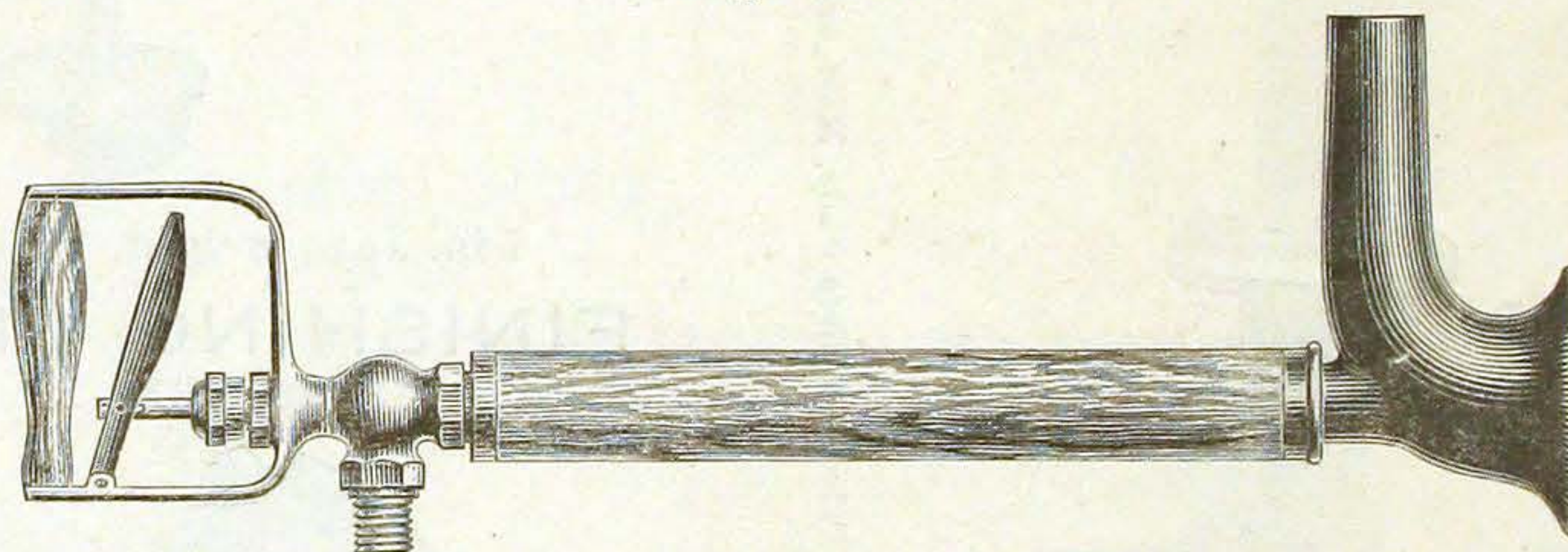
## CROSBY'S VACUUM FLUE CLEANERS.

Fig. 325.



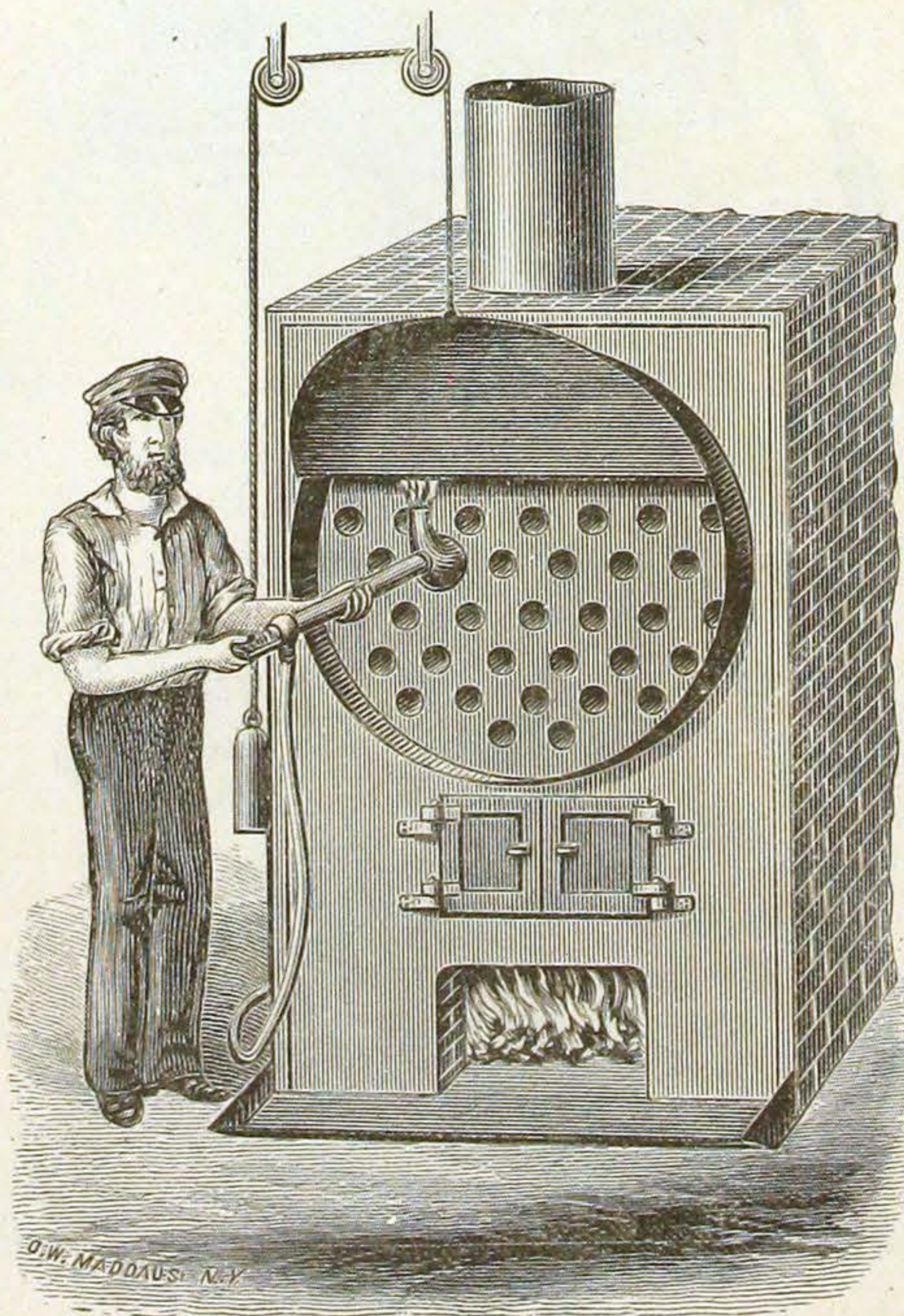
To blow out straight.

Fig. 326.



To blow up into Smoke-stack.

Fig. 327.

Patent  
Vacuum Flue Cleaner.

The most perfect cleaner in use.

Does not injure the Flues.

A set of Flues can be cleaned in a few minutes,  
while there is a full pressure of steam in the  
boiler.

Showing how it is used.

For all sizes of Flues.



# PATENT FLUE SCRAPERS.

Morse Flue Scraper.

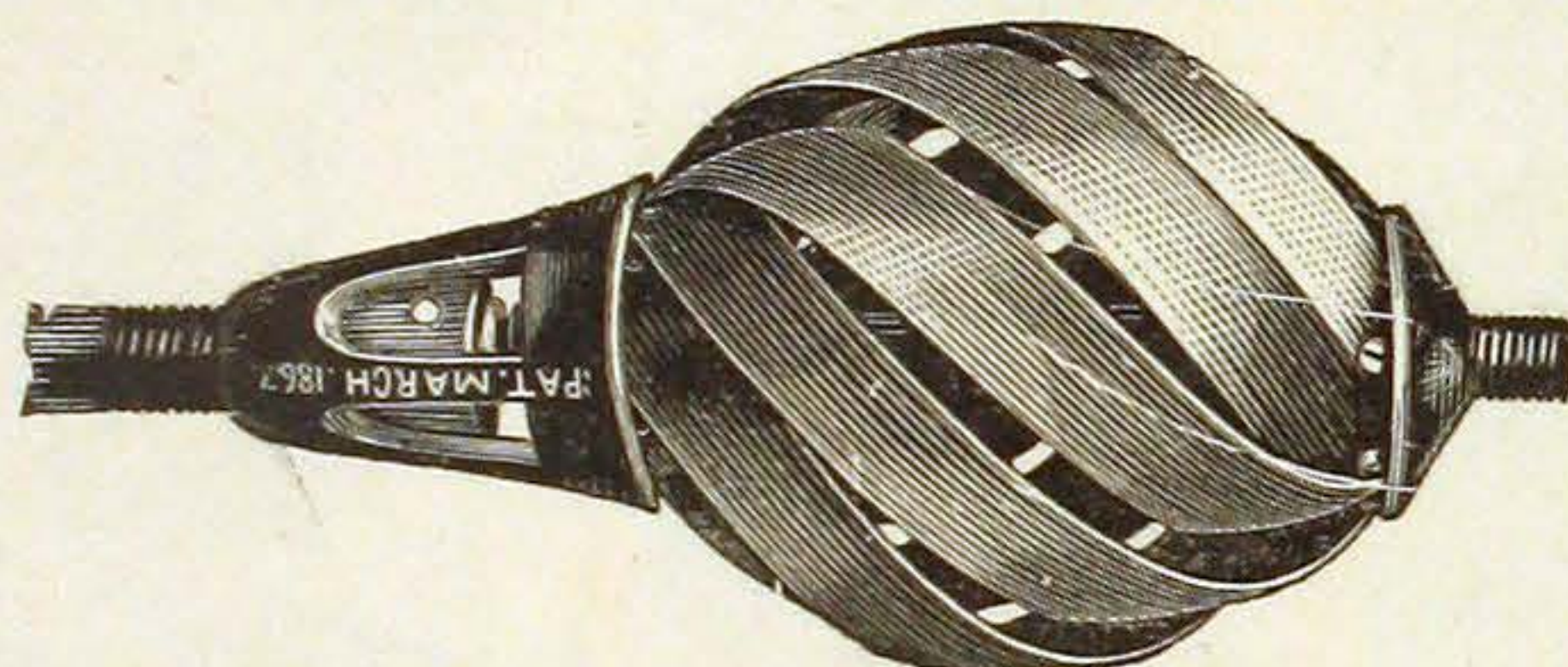
Fig. 328.



All Sizes.

Christoffel's Elliptic Flue Scraper. Collicott Scraper.

Fig. 329.



All Sizes.

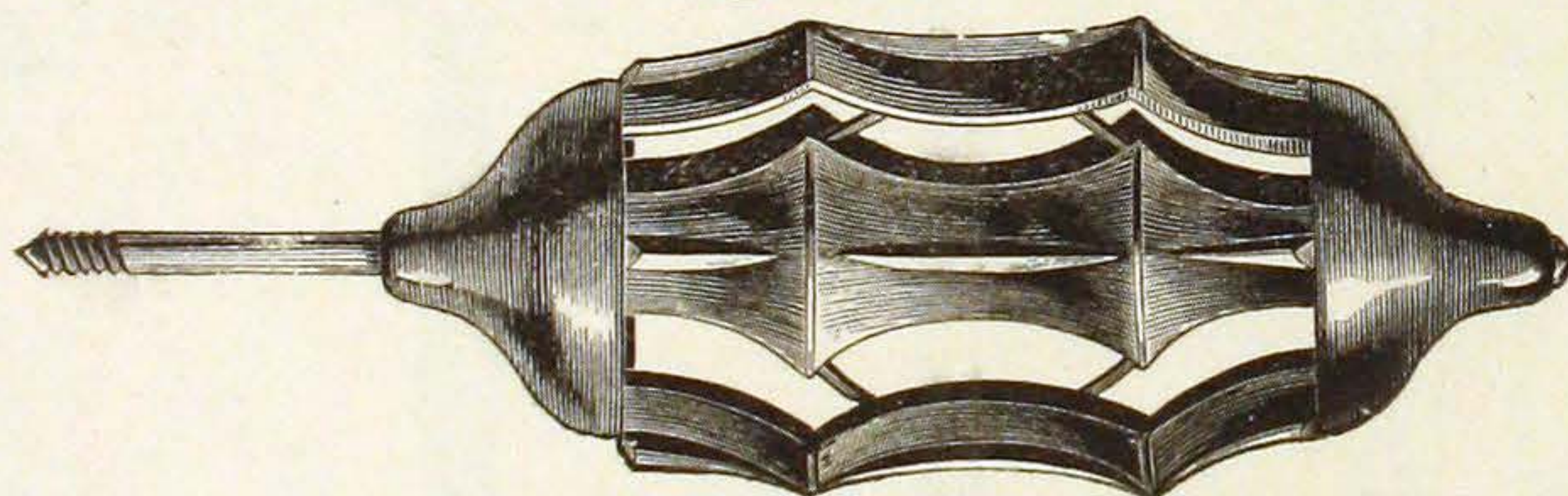
Fig. 330.



All Sizes.

Pratt's, or Miller's Fall's Flue Scraper.

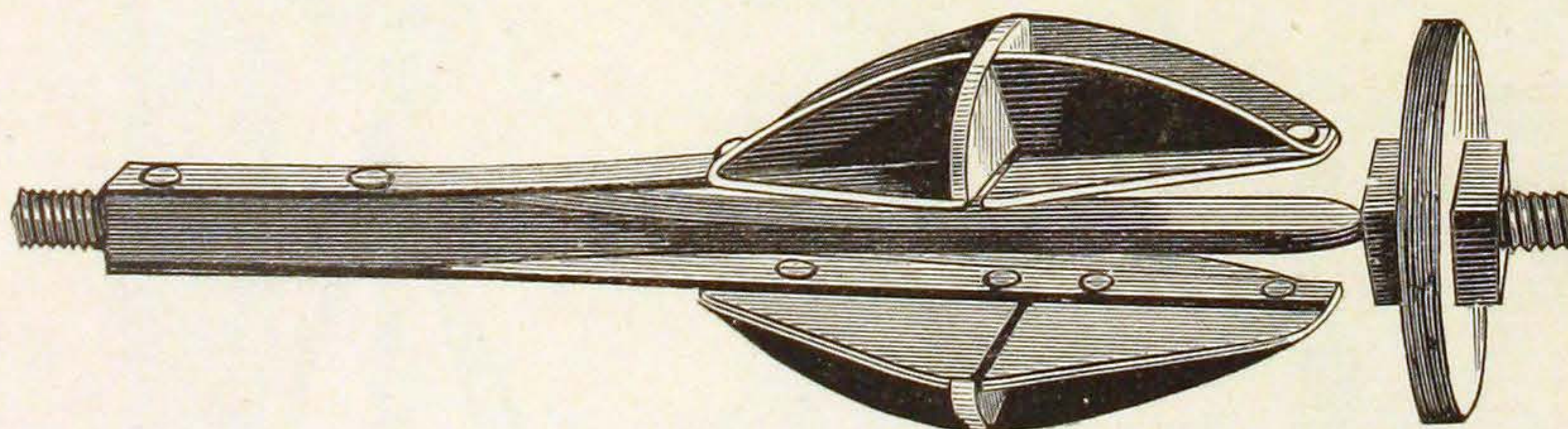
Fig. 331.



All Sizes.

Dann's Flue Scraper and Wiper Combined.

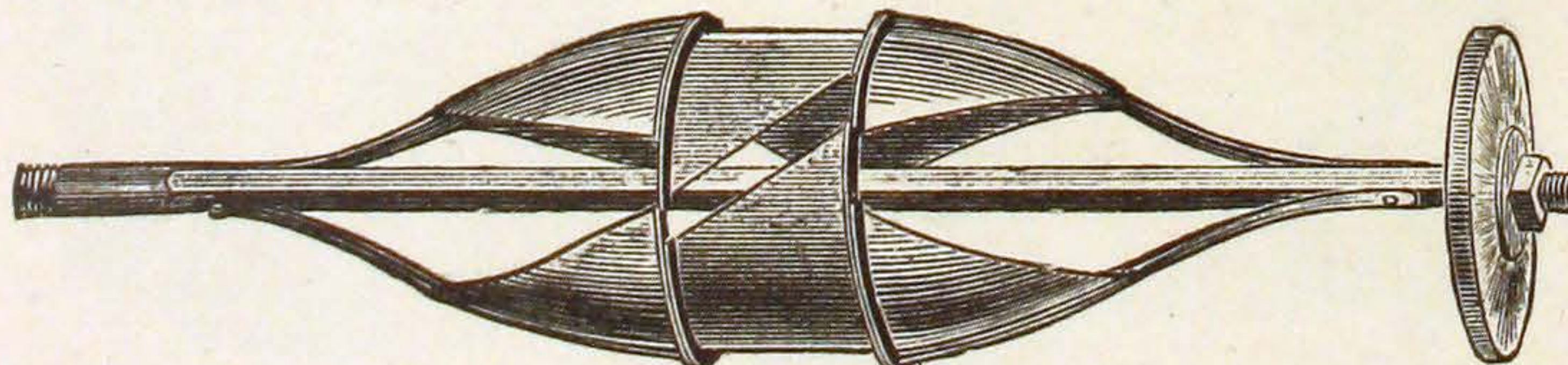
Fig. 332.



All Sizes, Steel or Iron.

Freeman's Flue Scraper and Wiper Combined.

Fig. 333.

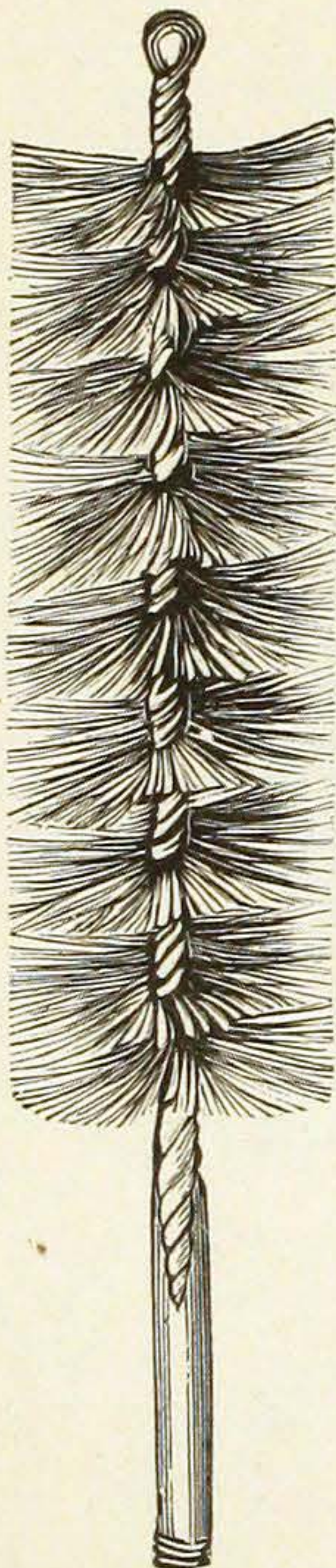


All Sizes, Steel.

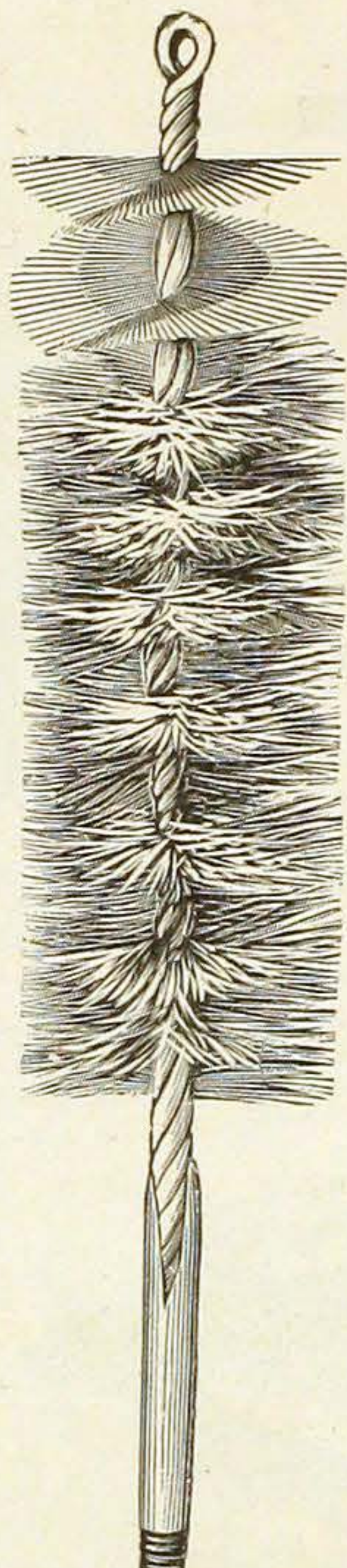


## FLUE BRUSHES.

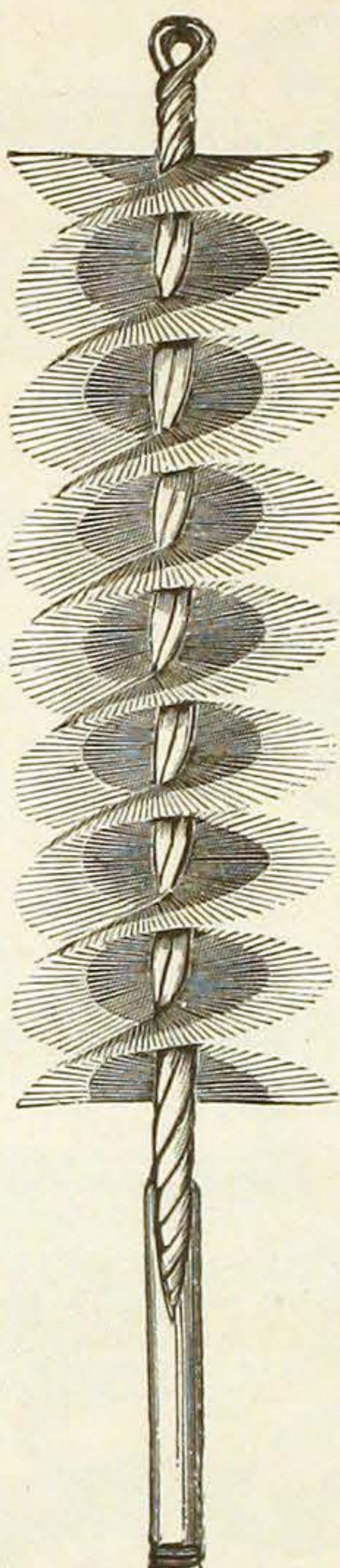
Whalebone.  
Fig. 334.



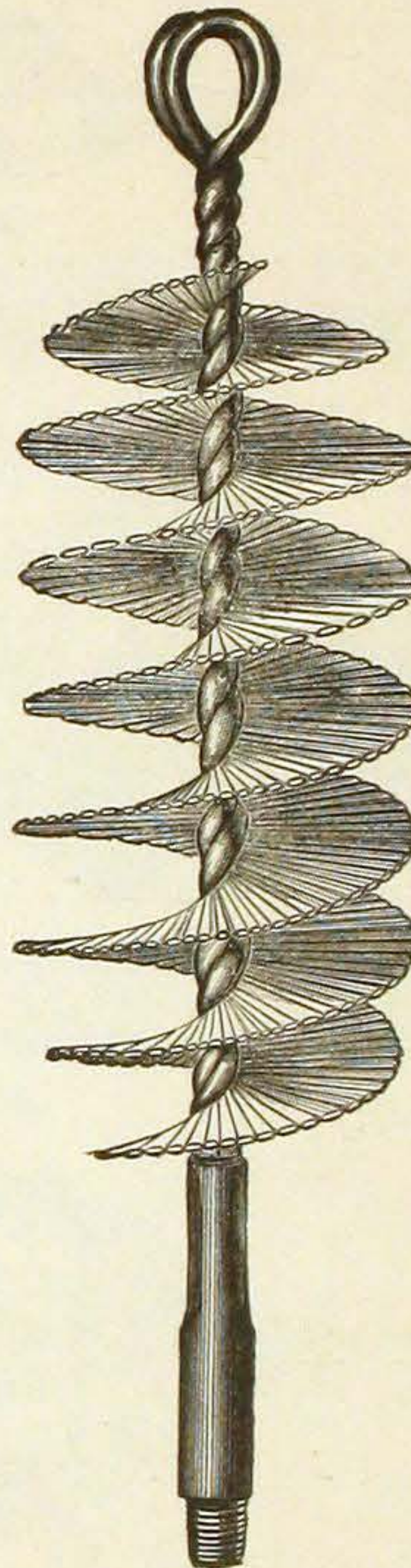
Combination Bone  
and Steel Wire.  
Fig. 335.



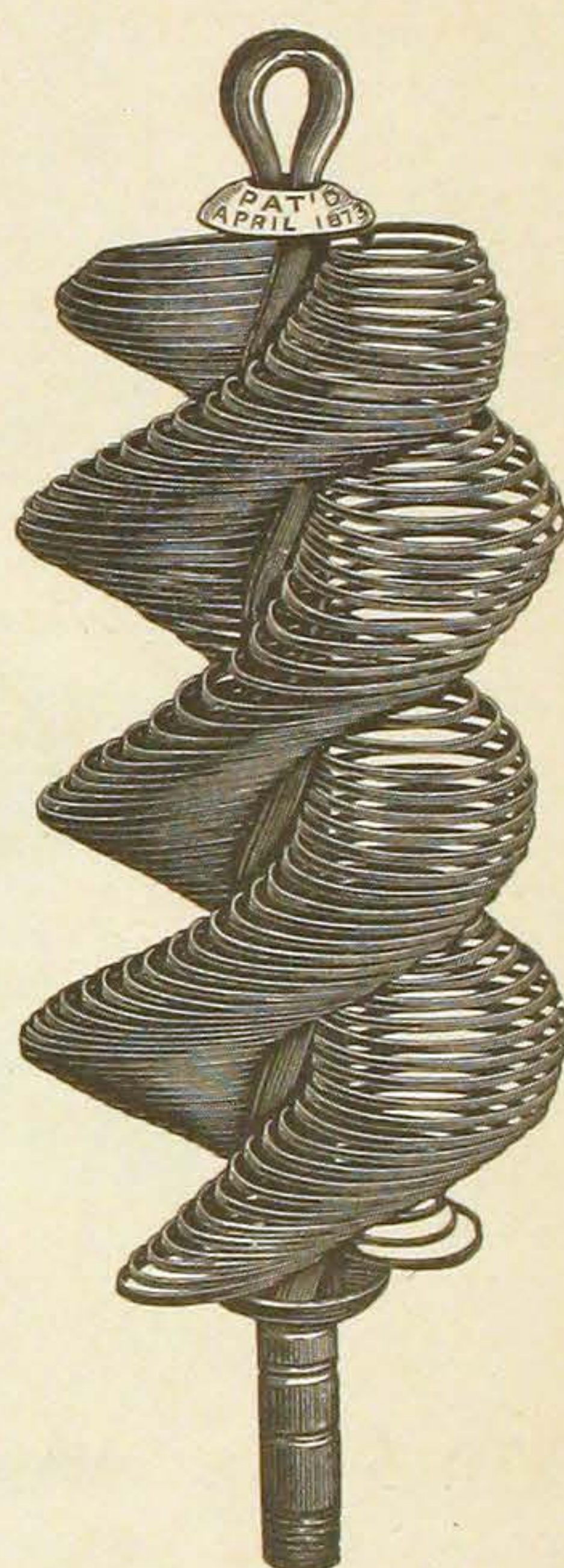
Steel Wire.  
Fig. 336.



Stillwell's Patent.  
Fig. 337.



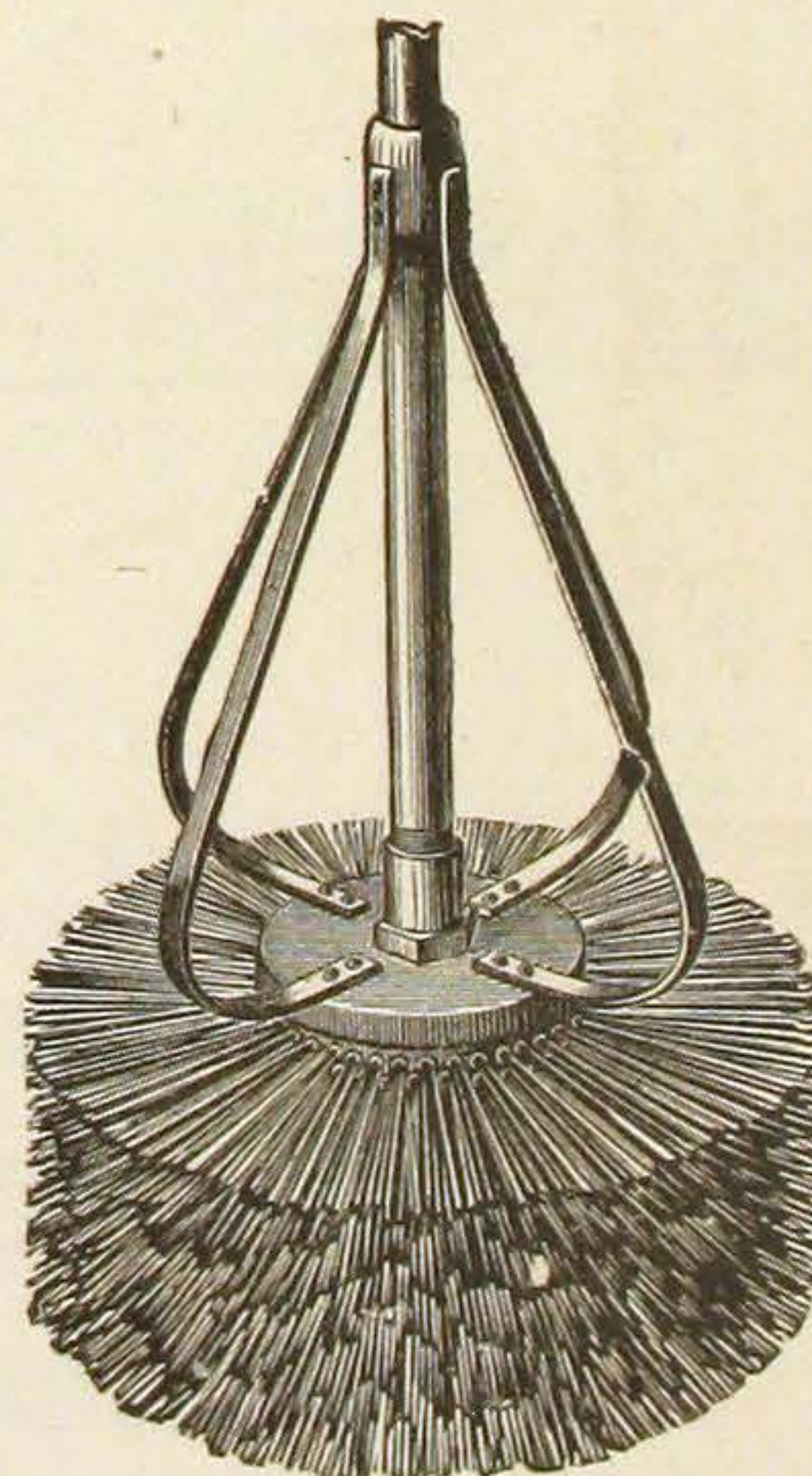
Christoffel's Patent.  
Fig. 338.



All Sizes.

Flexible Wire  
Brush and Scraper.

Steel Brush Flue Cleaner.  
Fig. 339.



Over 6 in.

Steel Brush Flue Cleaner.

Fig. 340.





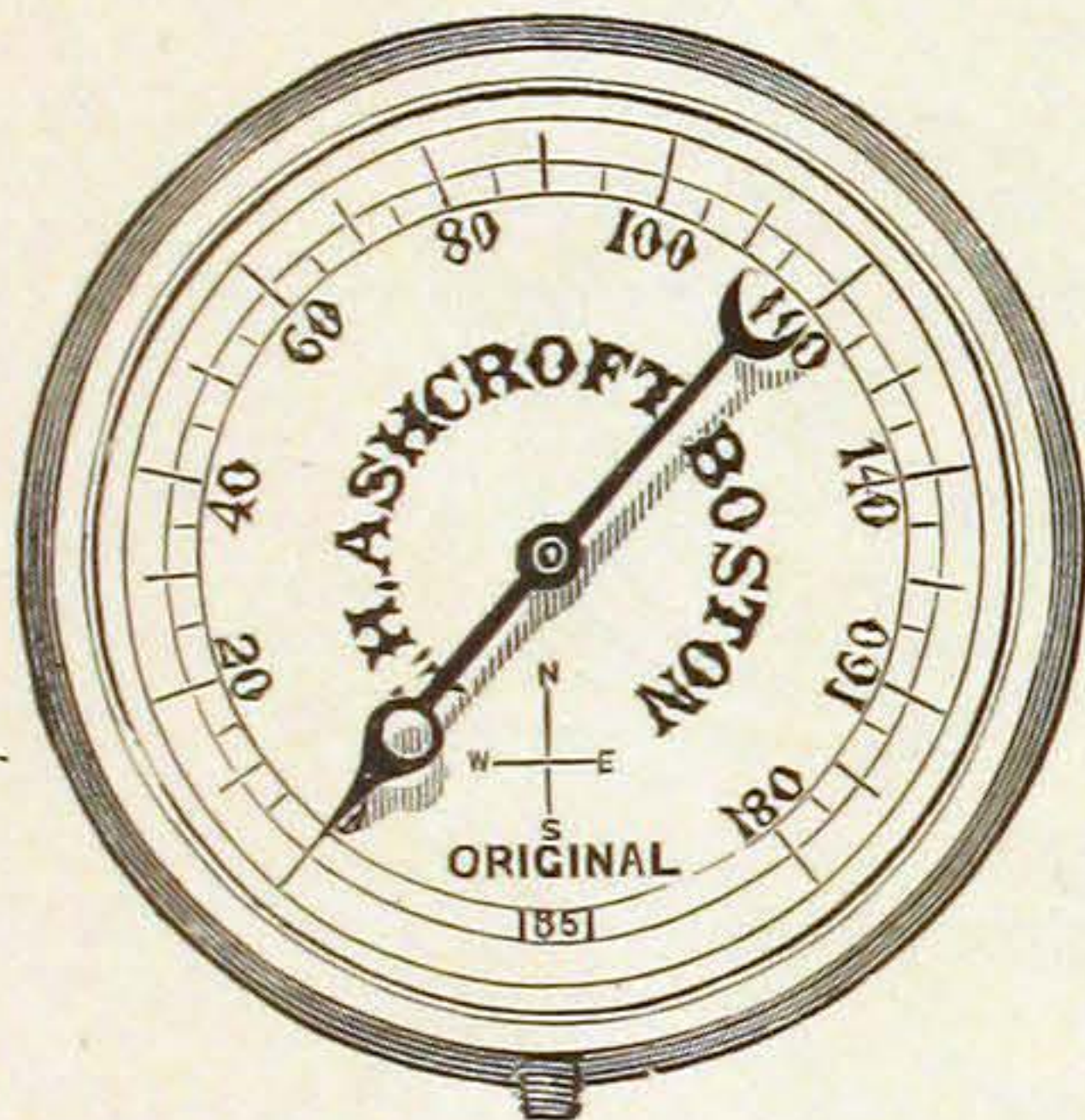
# STEAM GAUGES.

Ashcroft's Gauges.

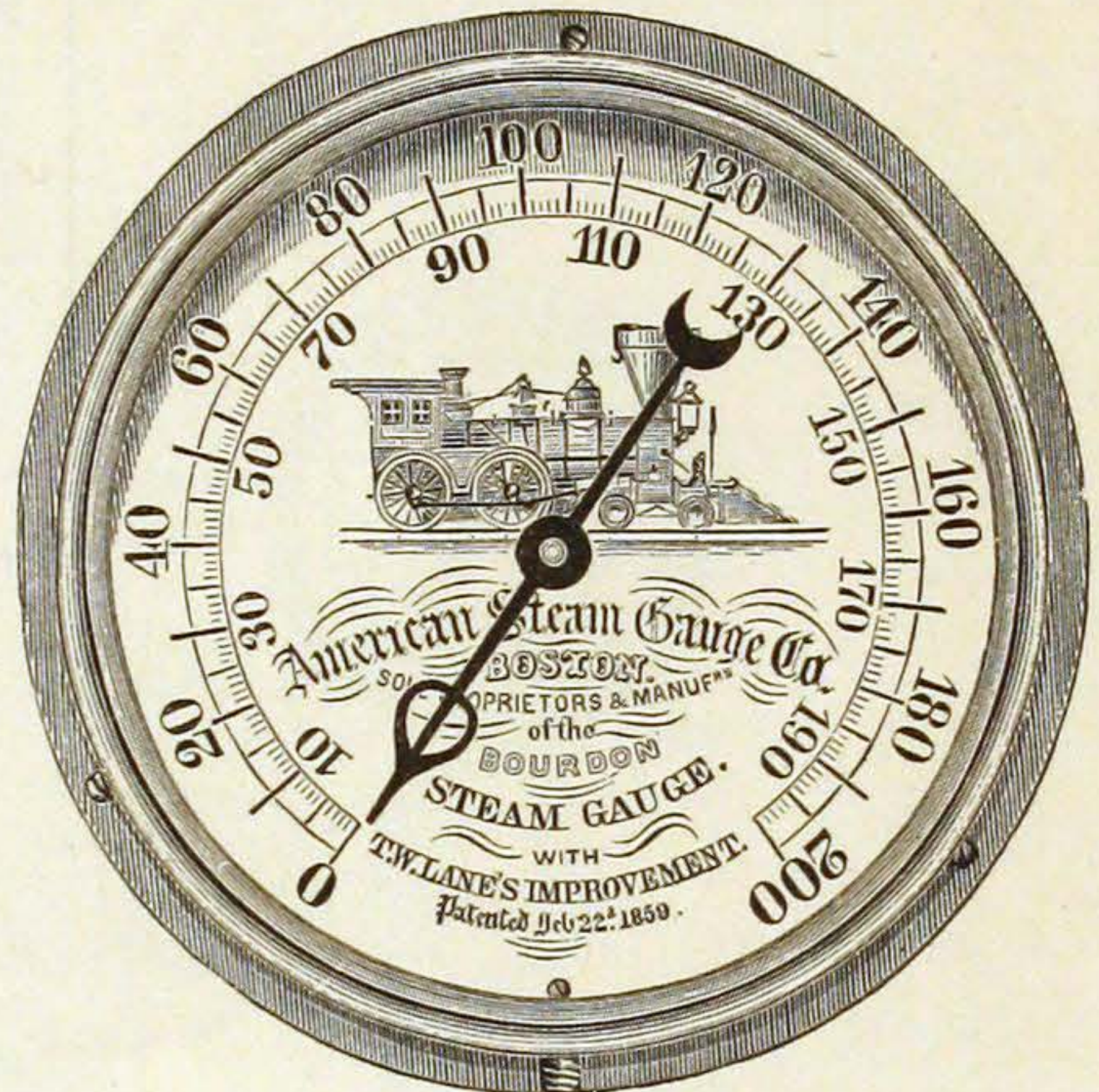
American  
Steam Gauge Co's.

Fig. 343.

Fig. 342.



Brass and Iron.



All Sizes.

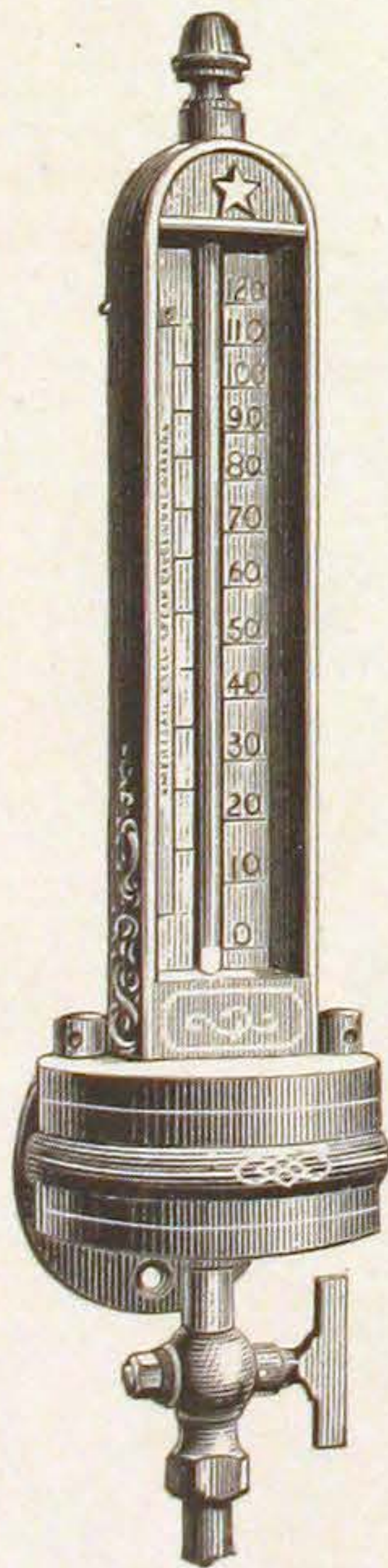
Brass and Iron.

Mercury Gauges.

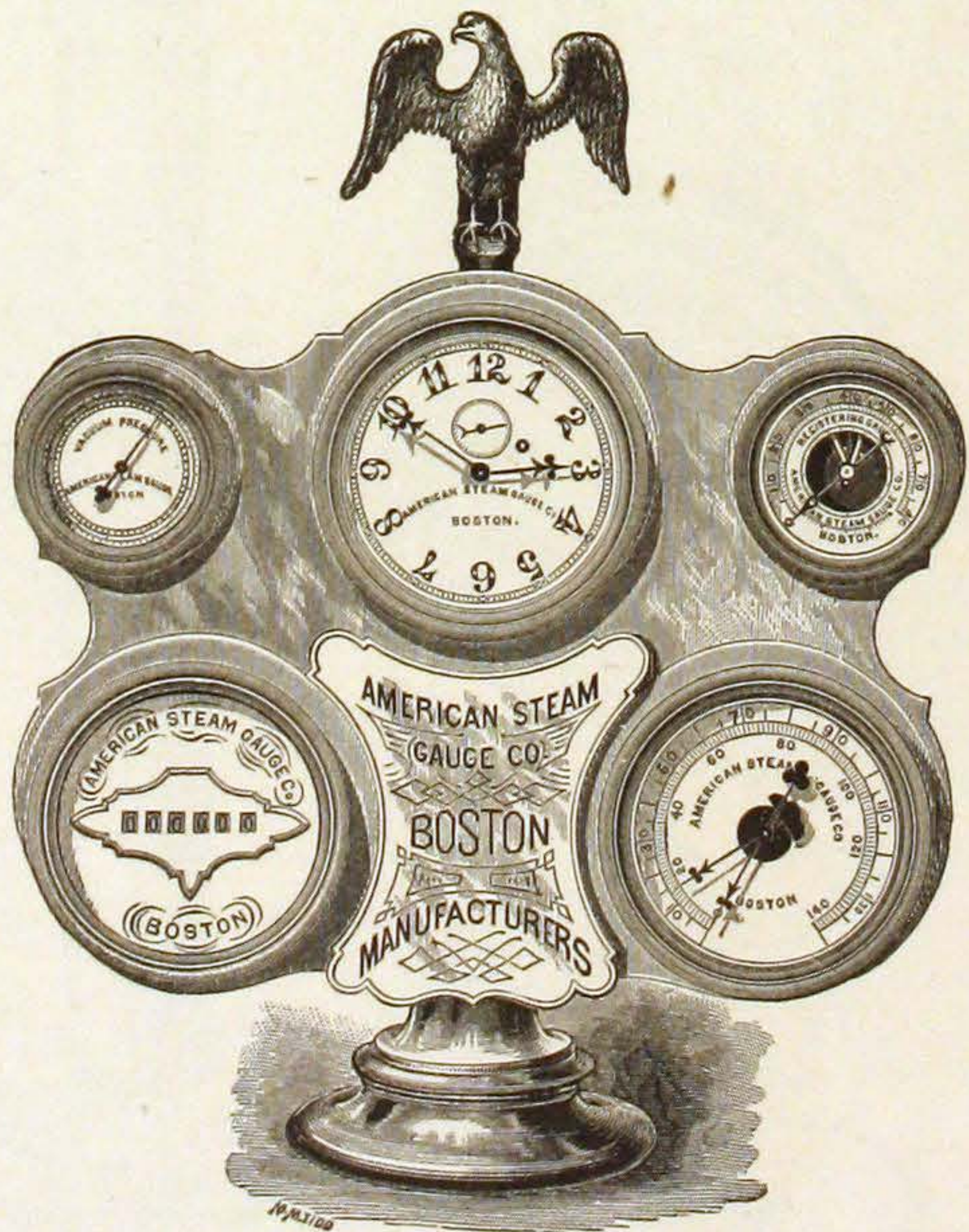
Combination Register.

Fig. 344.

Fig. 345.



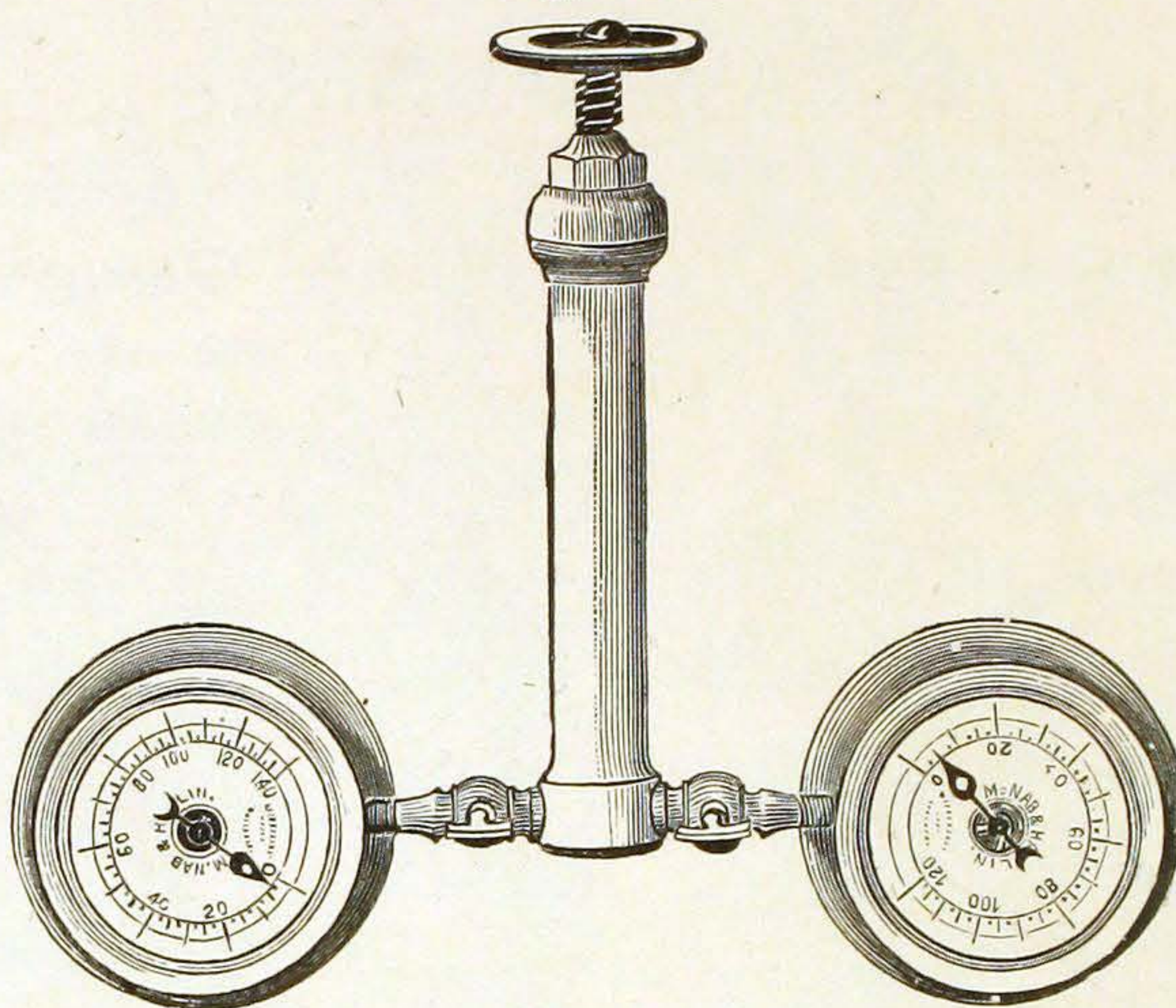
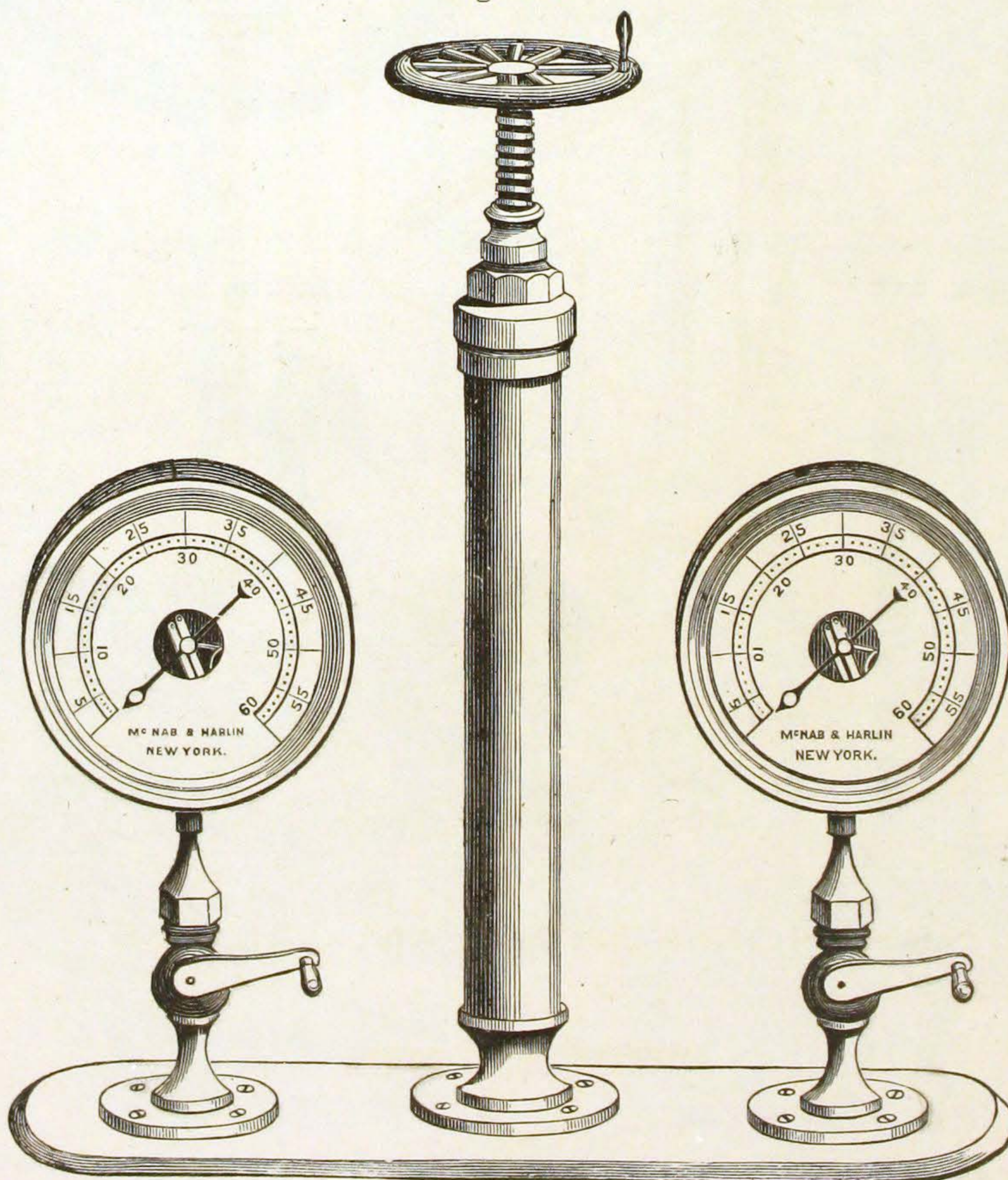
All Sizes.



Clock, Steam, Vacuum and Registering Gauges.



# HYDRAULIC PRESSES FOR TESTING STEAM GAUGES.

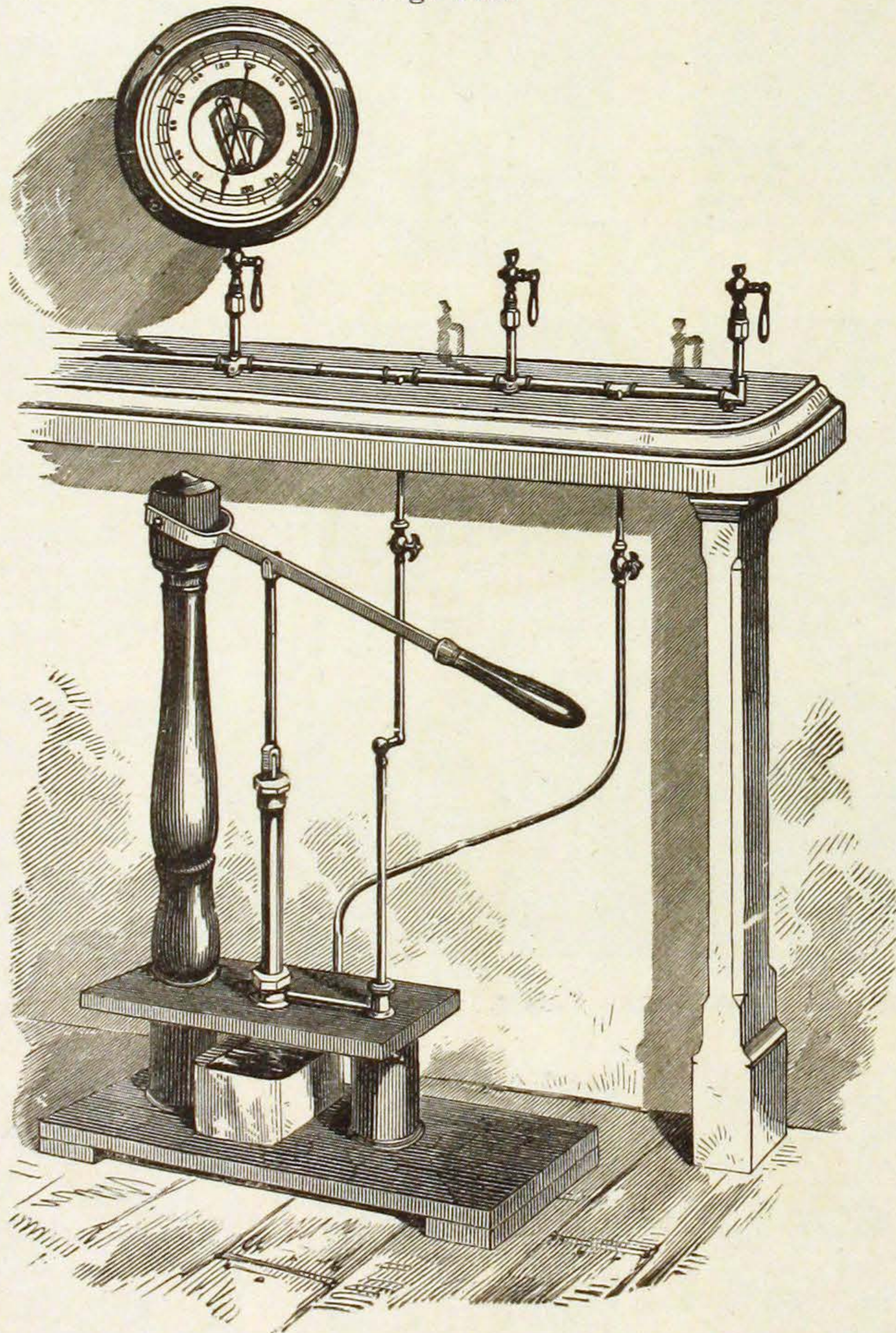
**Fig. 346.****Small.****Fig. 347.****Large on Walnut Stand.**



## HYDRAULIC PRESS, AND SYPHON.

Hydraulic Press for Testing Steam Gauges.

Fig. 348.



Complete with Test Gauge.

## SYPHON FOR STEAM GAUGES.

Fig. 349.

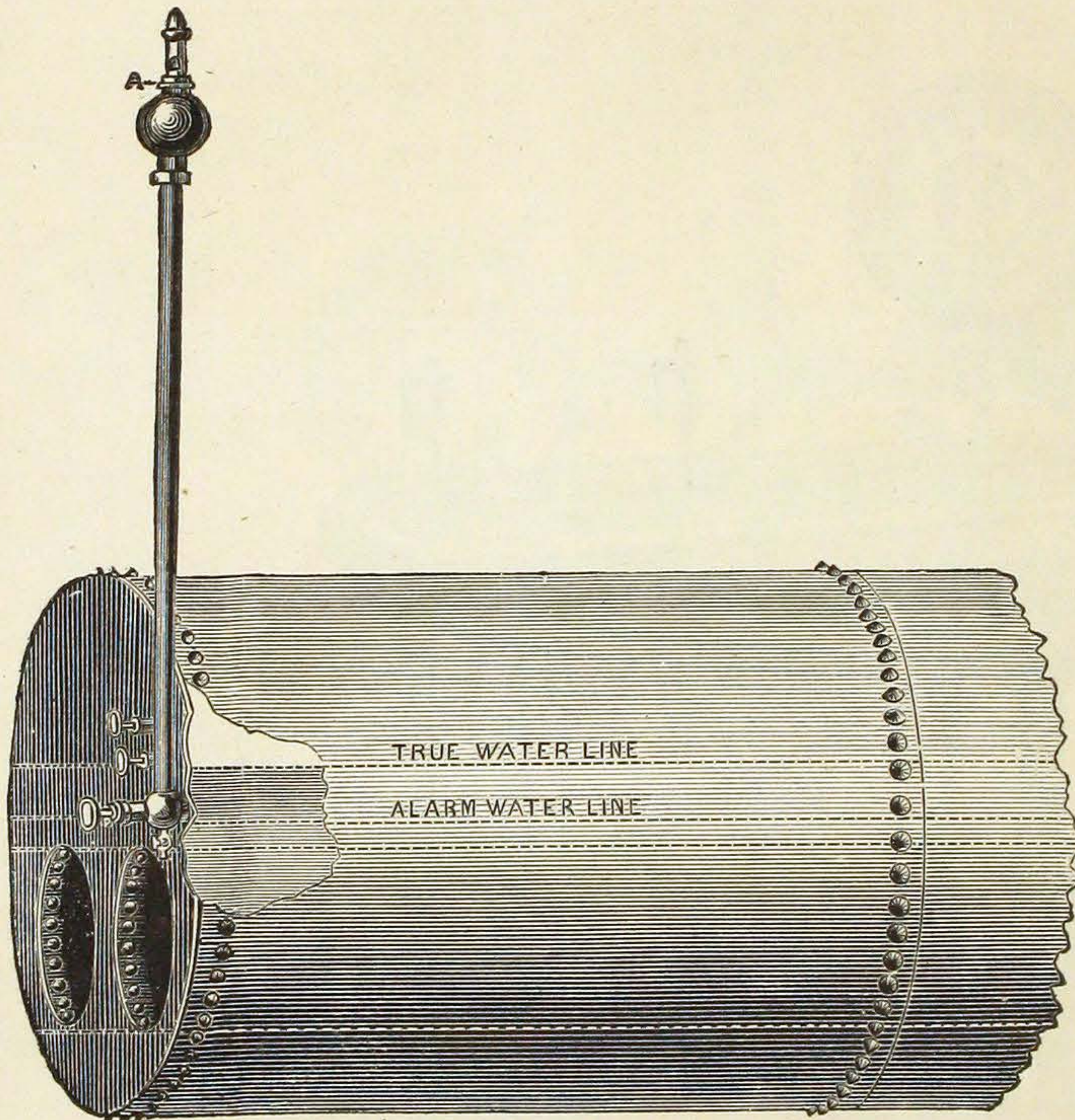


Made of 1-4 inch pipe.



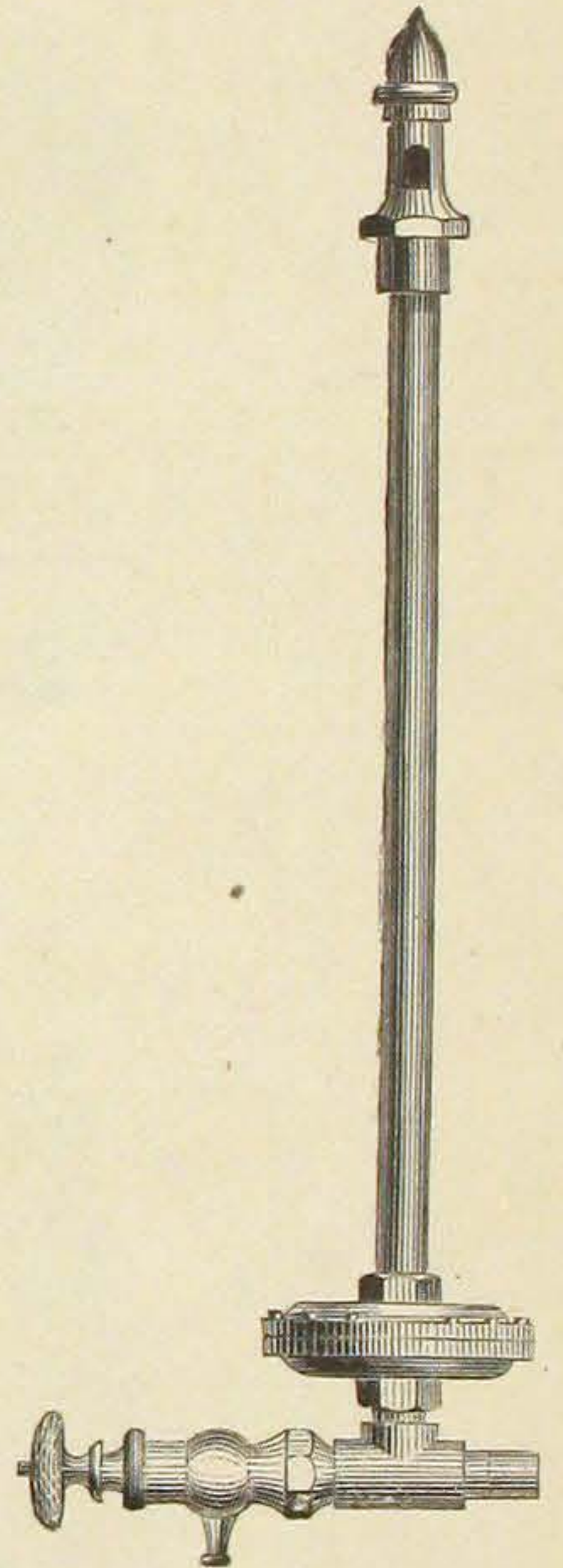
## LOW WATER DETECTORS.

Fig. 350.



Ashcroft's Patent.

Fig. 351.

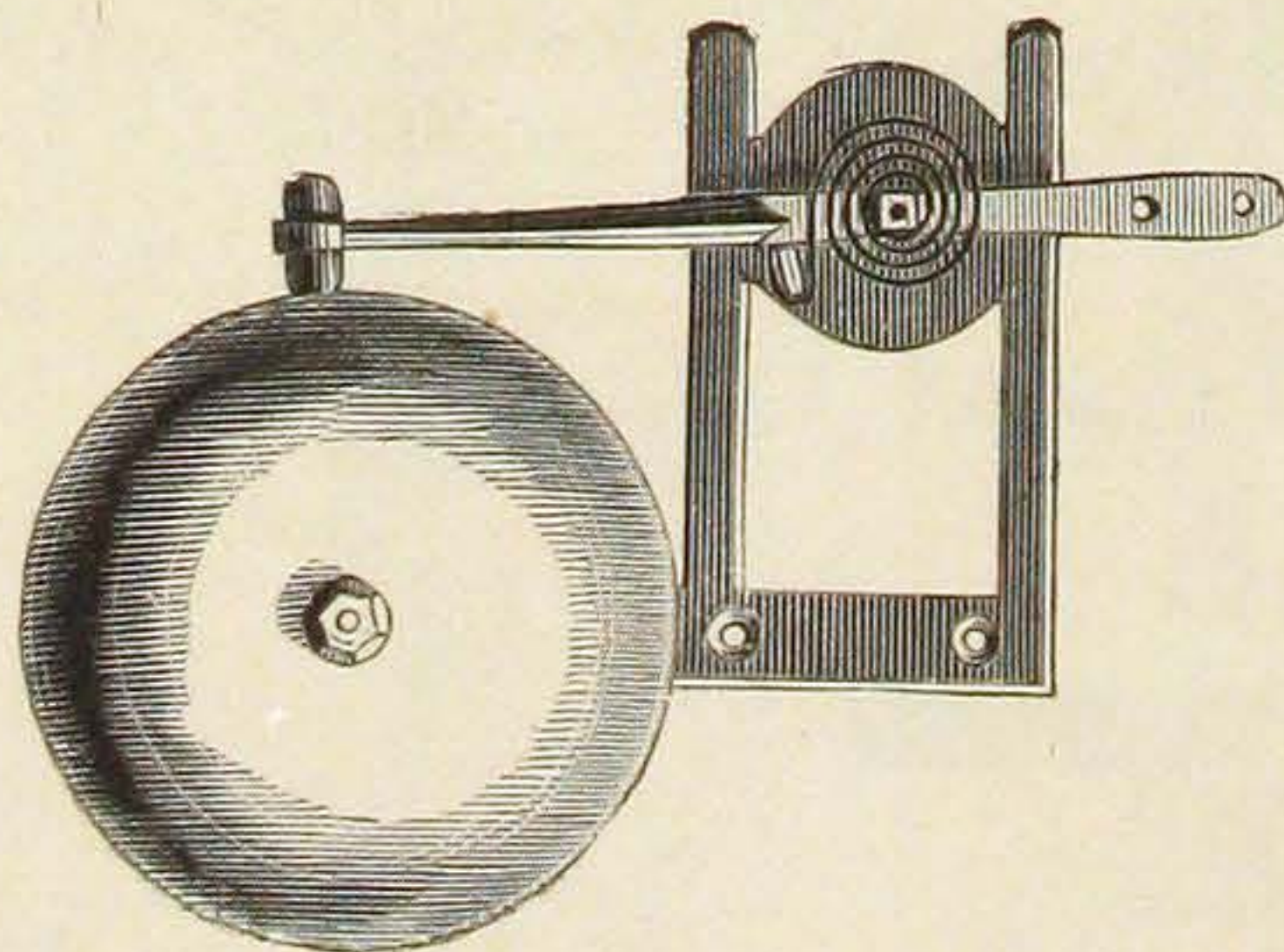


Snow's Patent.

## GONG BELLS.

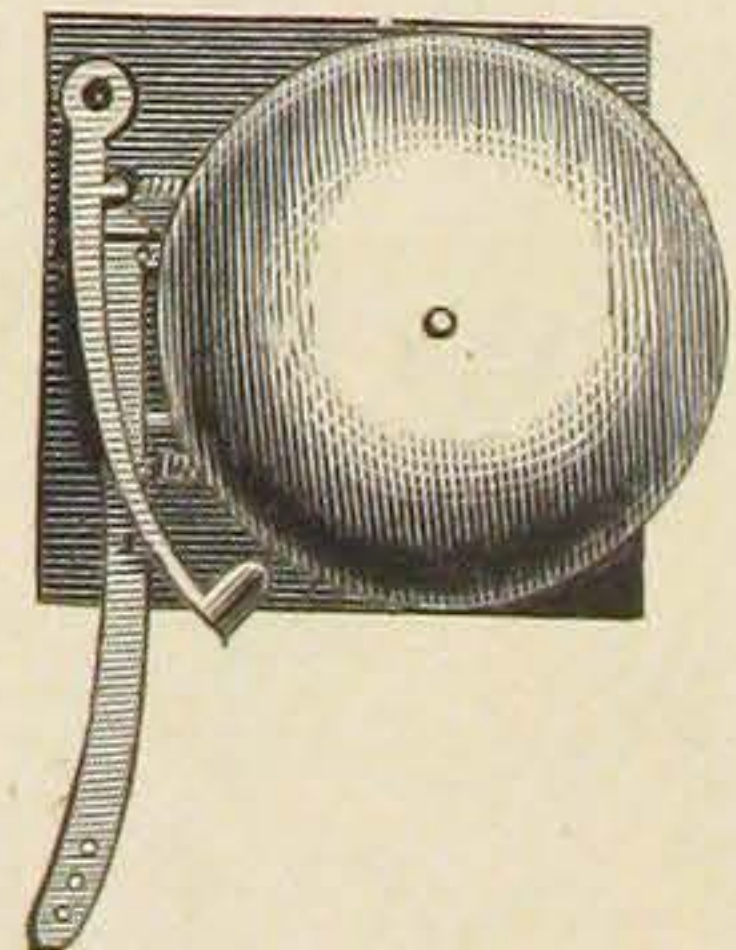
STEAMBOAT OR COMMON. LOCOMOTIVE.

Fig. 352.



Sizes, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15 and 18 inch.

Fig. 353.



Sizes, 6, 7, 8, 9 and 10 inch.



# FILES.

Fig. 354.

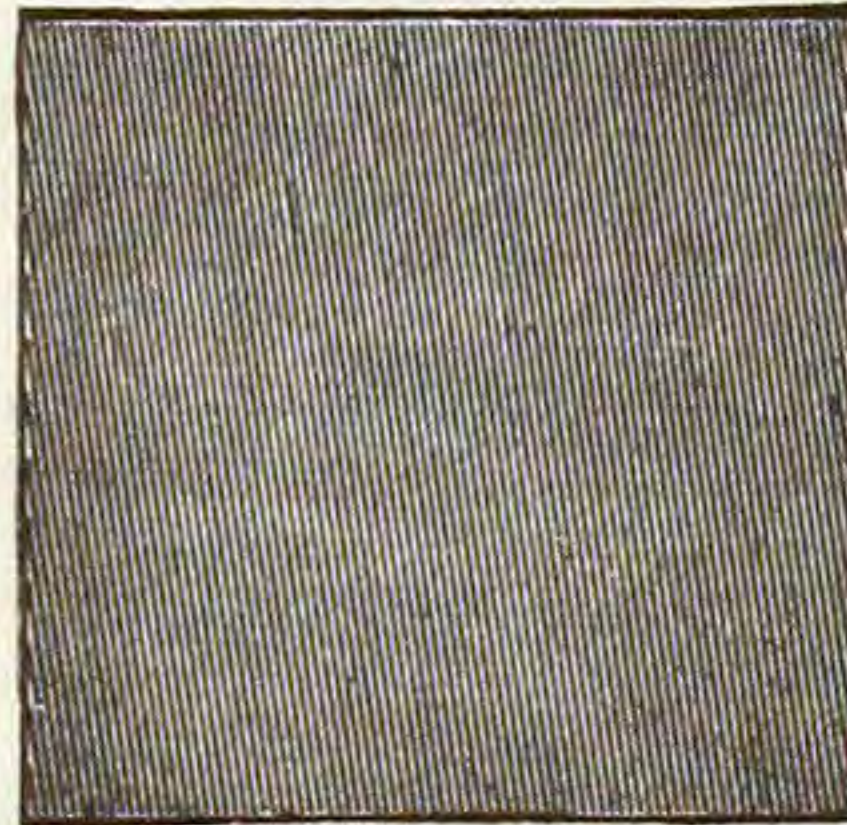
SHOWING THE DIFFERENT KINDS OF FILES.

**DOUBLE CUT.**



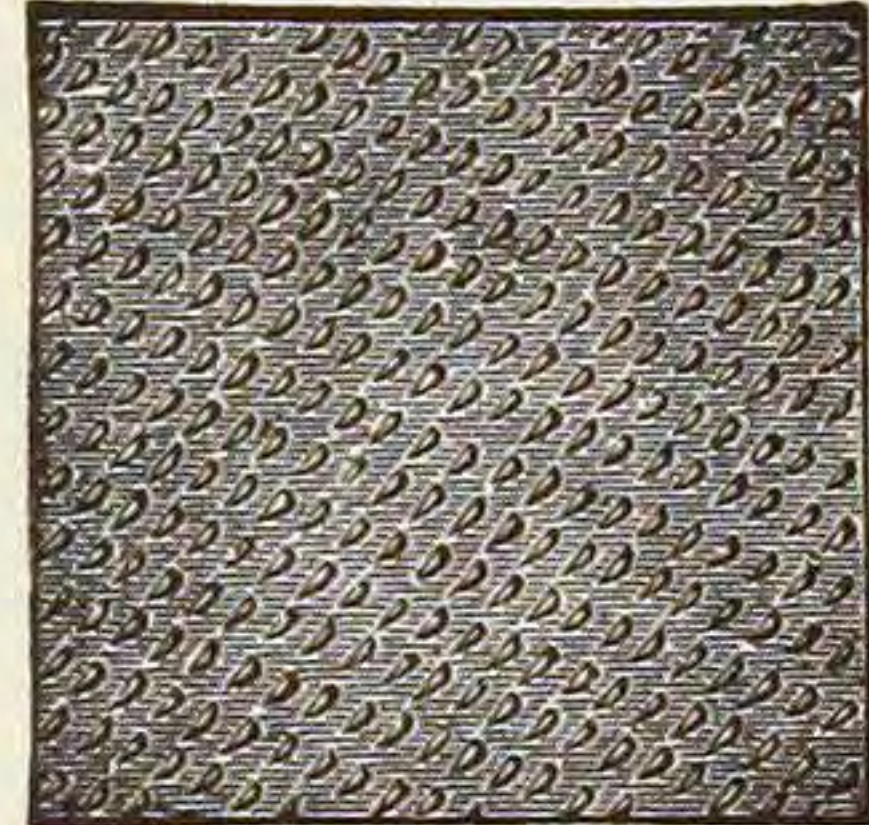
**DEAD SMOOTH.**

**SINGLE CUT.**

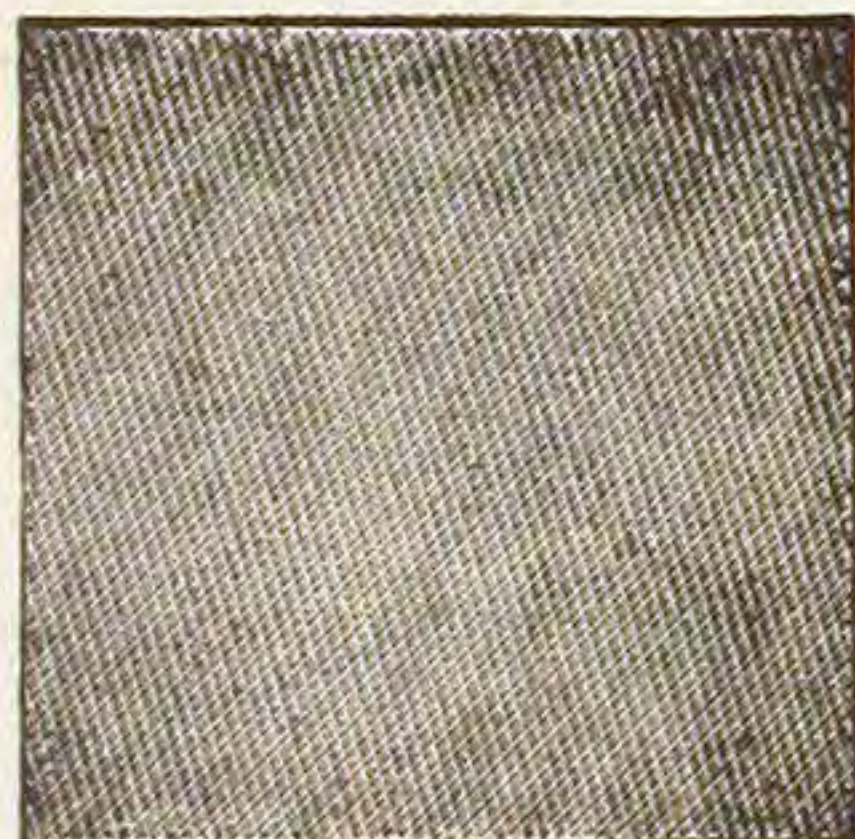


**SMOOTH.**

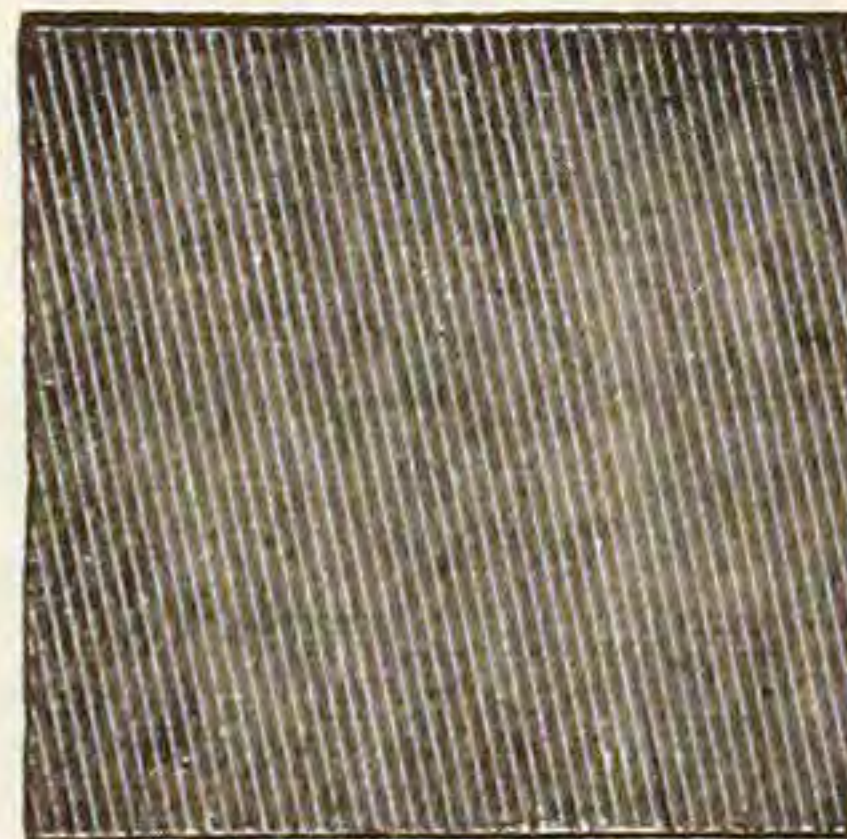
**RASP CUT.**



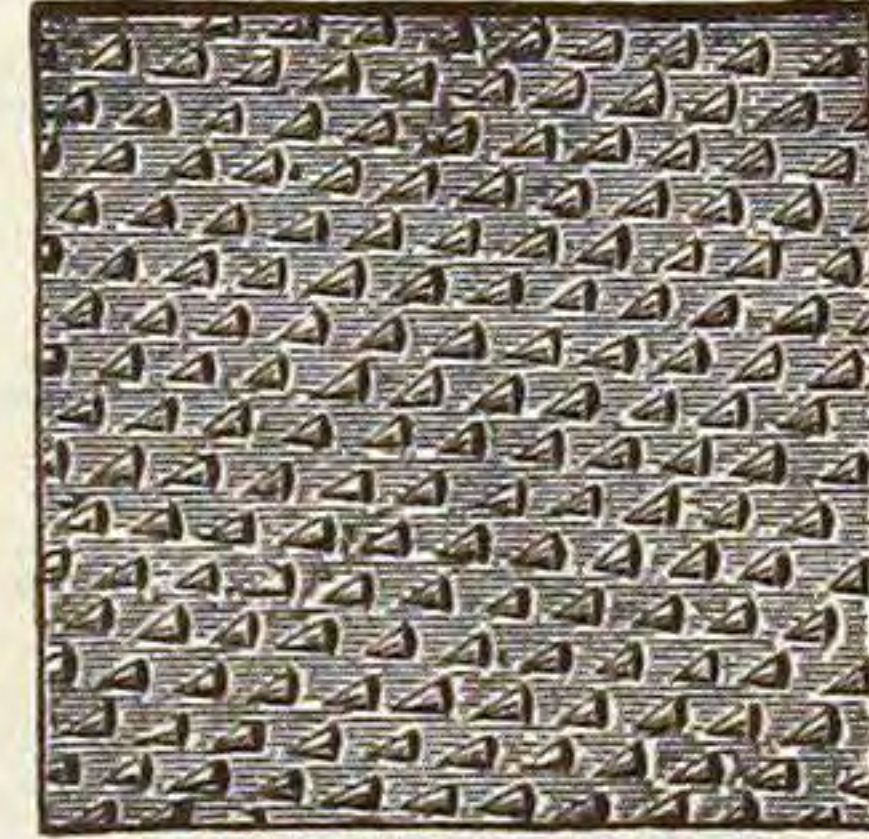
**SMOOTH.**



**SMOOTH**



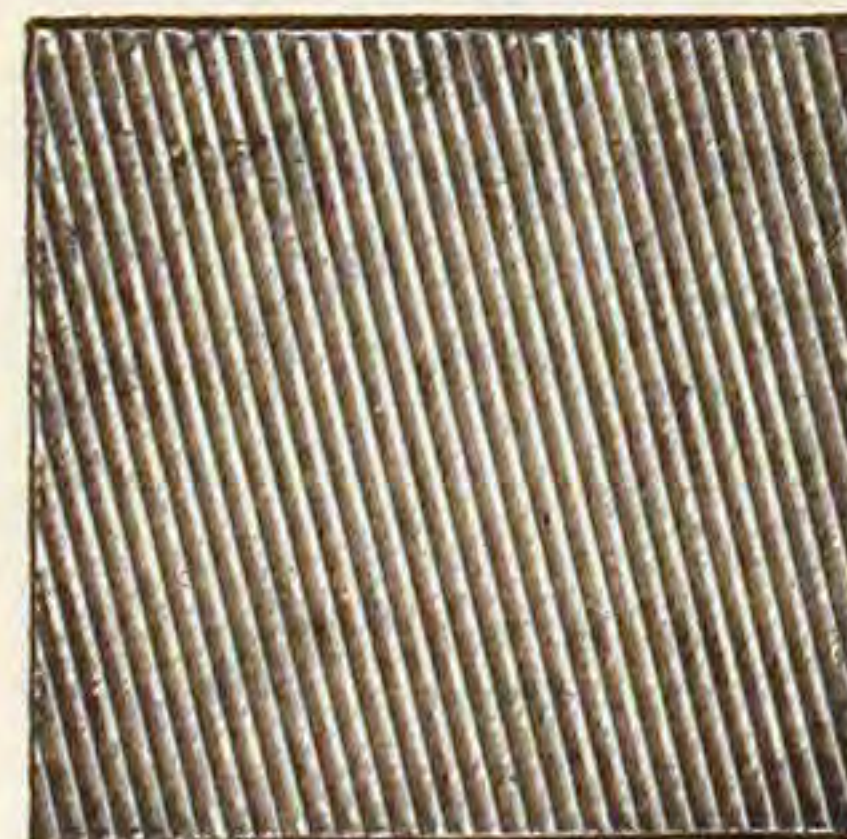
**SECOND CUT.**



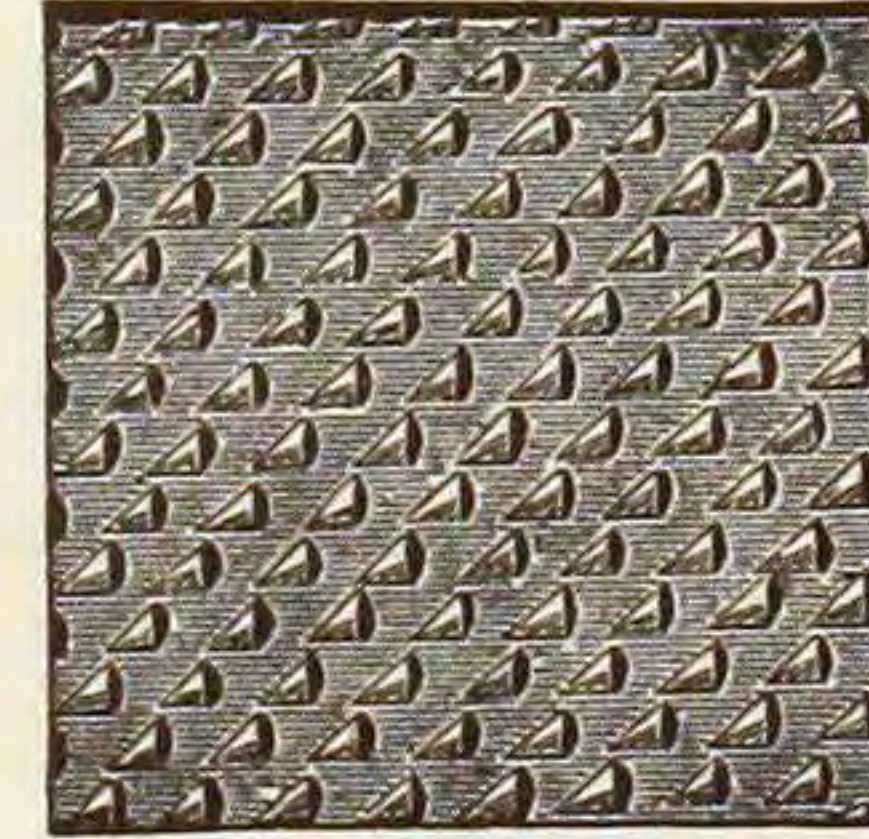
**SECOND CUT.**



**SECOND CUT.**



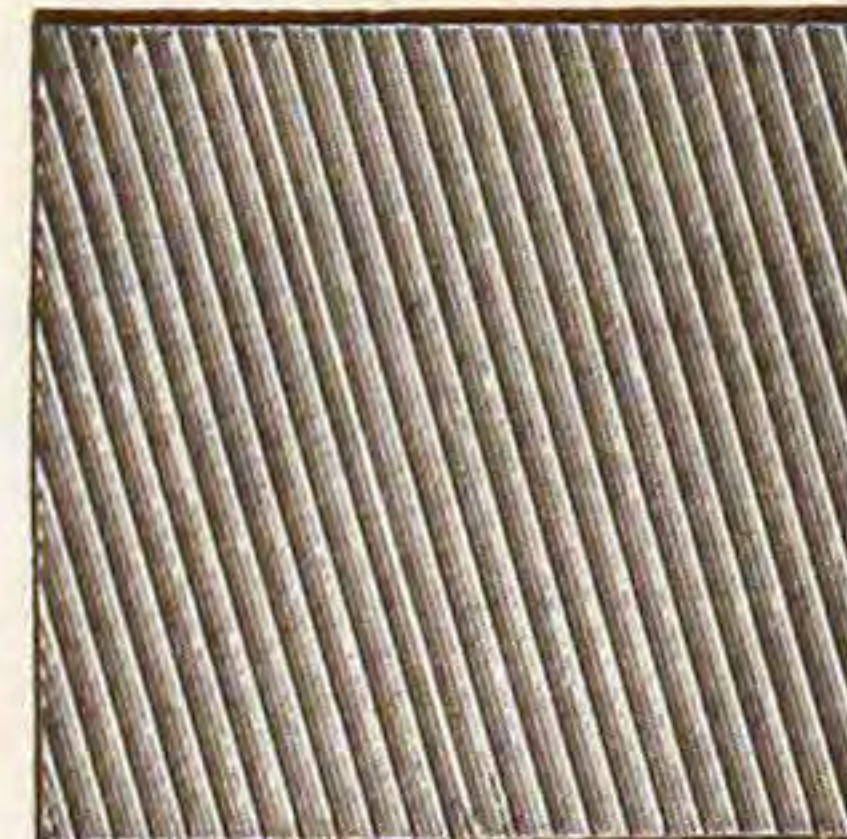
**BASTARD.**



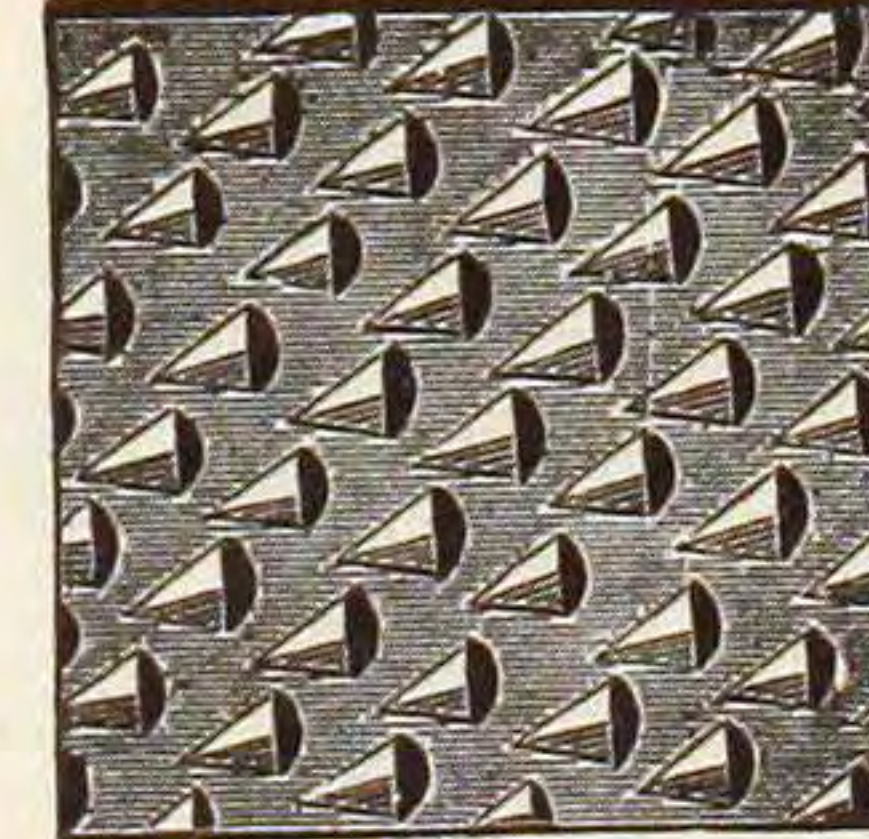
**BASTARD.**



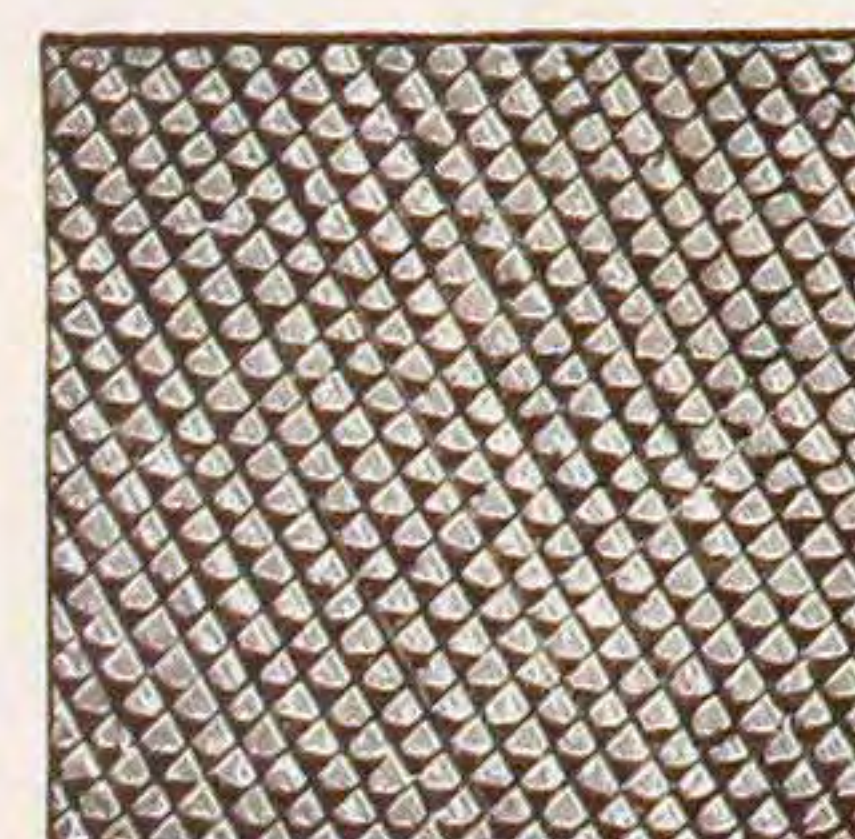
**BASTARD**



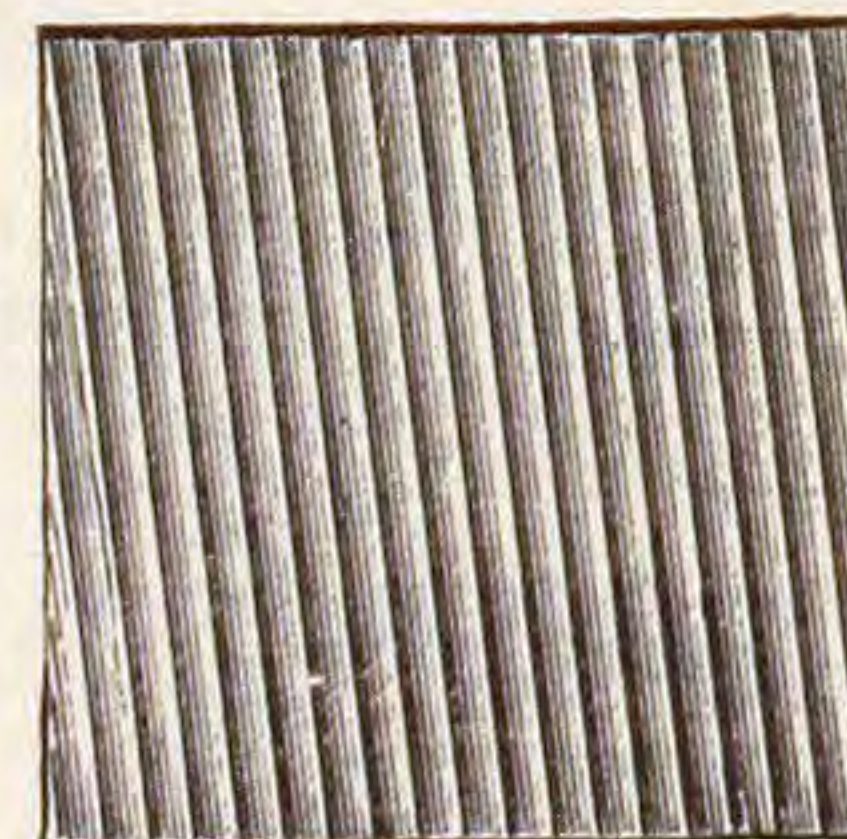
**BET. BAST. & MIDDLE**



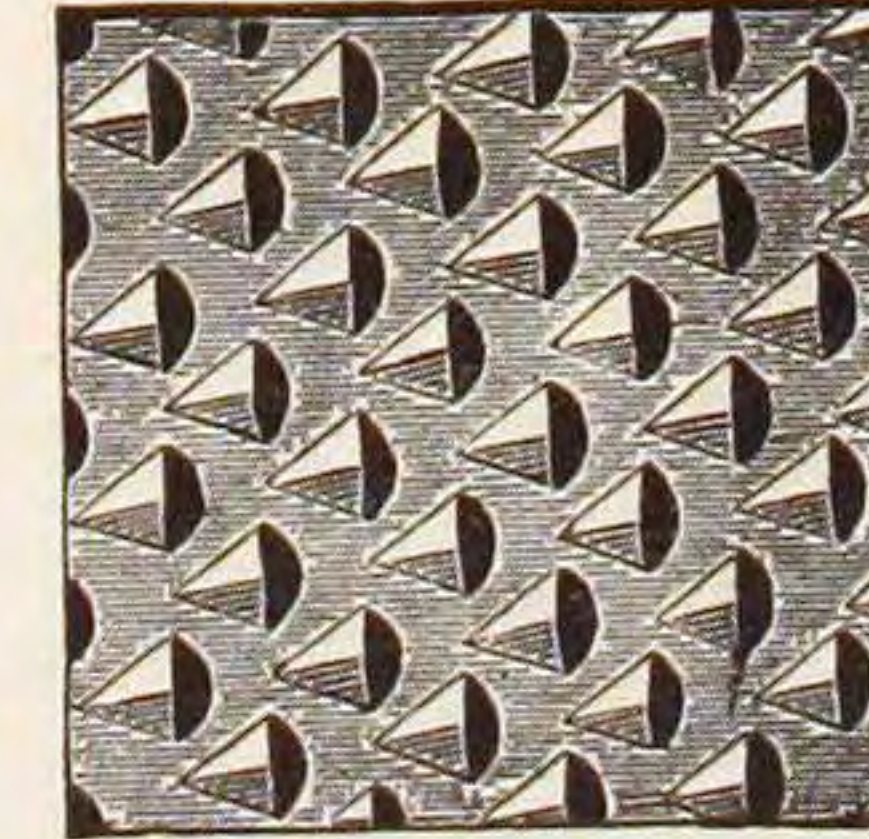
**ROUGH**



**ROUGH.**



**ROUGH.**

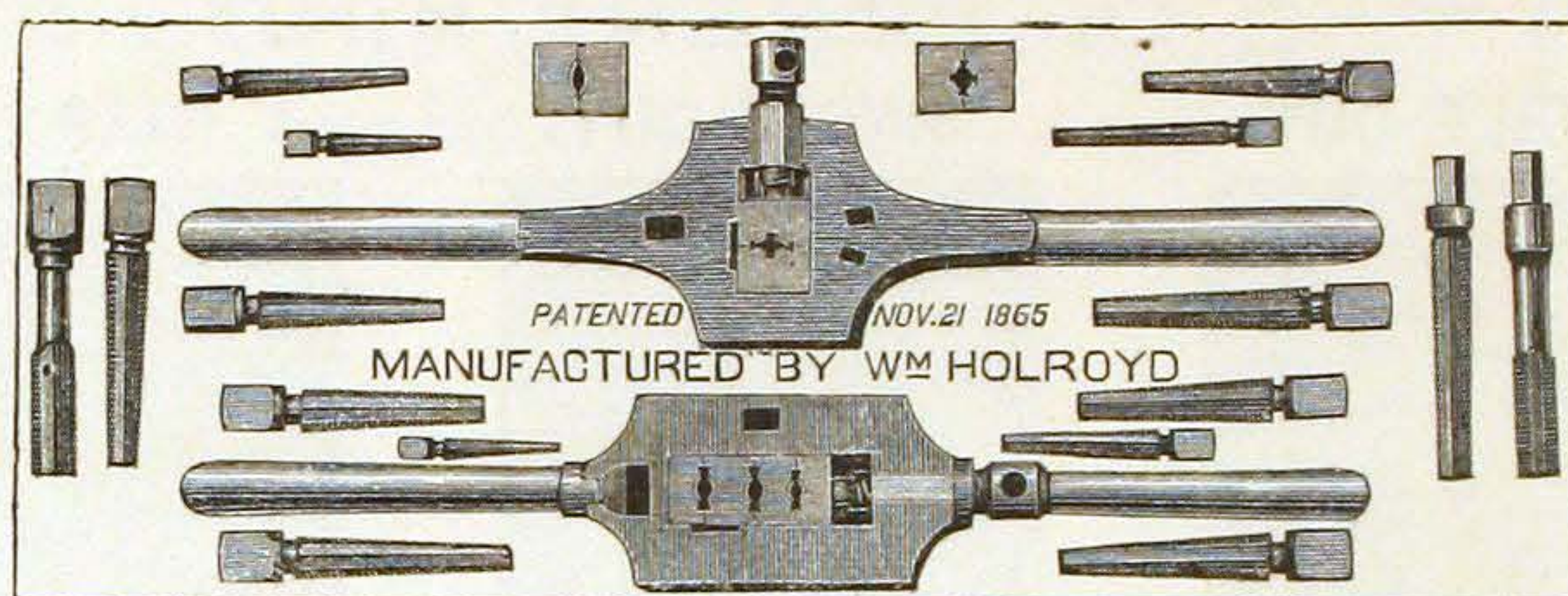


**HORSE.**



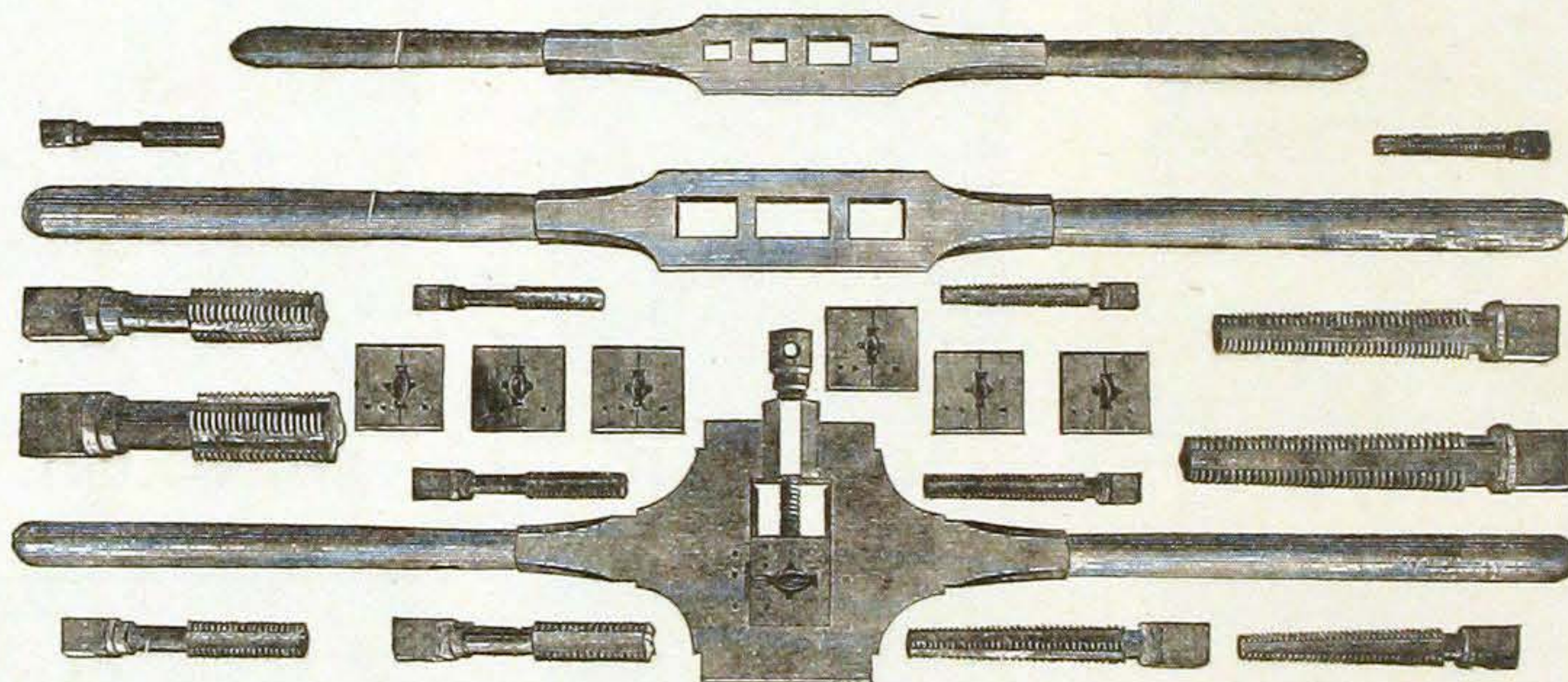
## STOCKS AND DIES, AND WASHER CUTTERS.

Fig. 355.



Stocks, Dies and Taps, for Machine Shops, &amp;c.

Fig. 356.



Stocks, Dies, Wrenches, Plug and Taper Taps, in sets.

## WASHER CUTTERS.

Fig. 357.

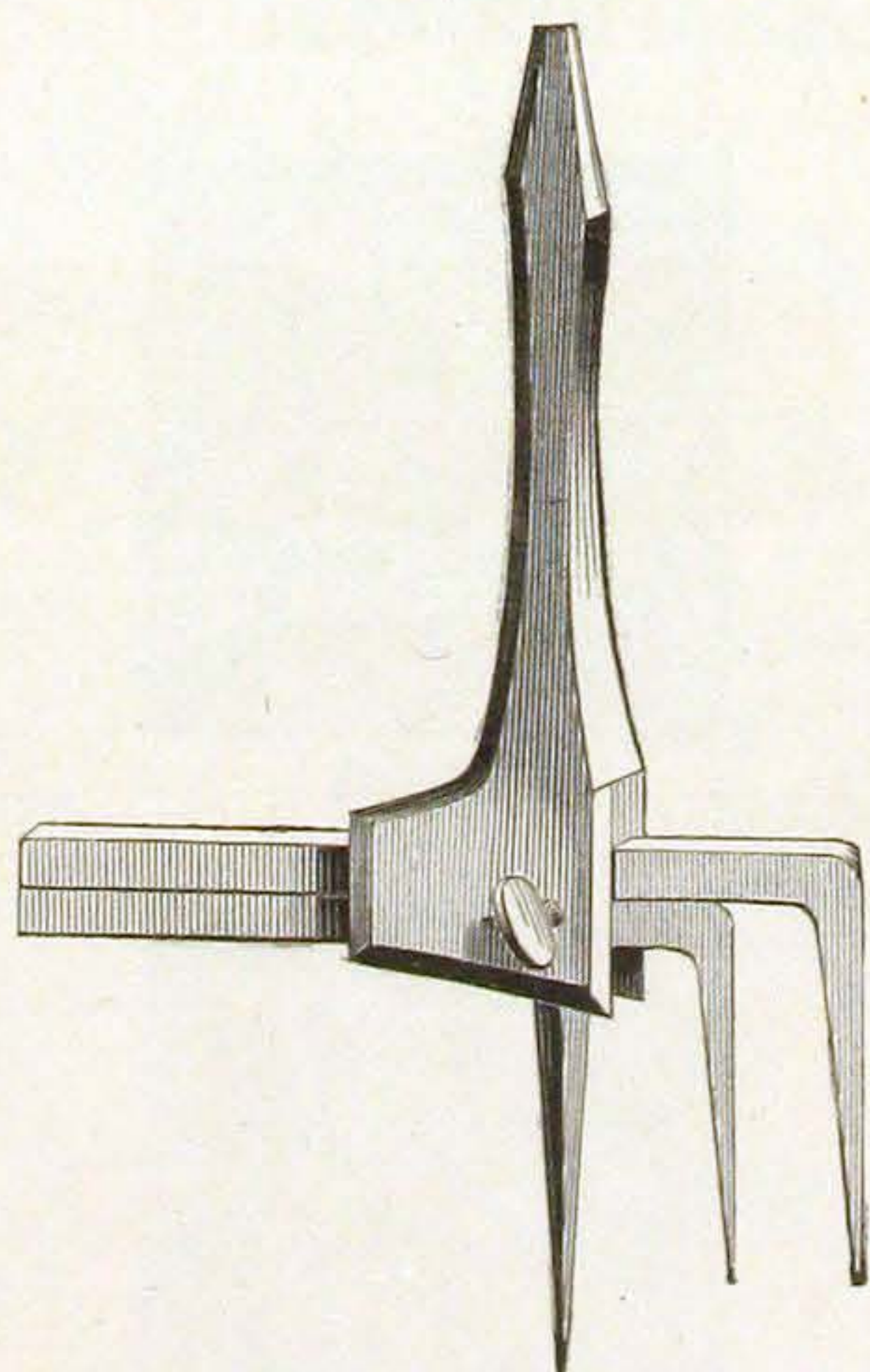
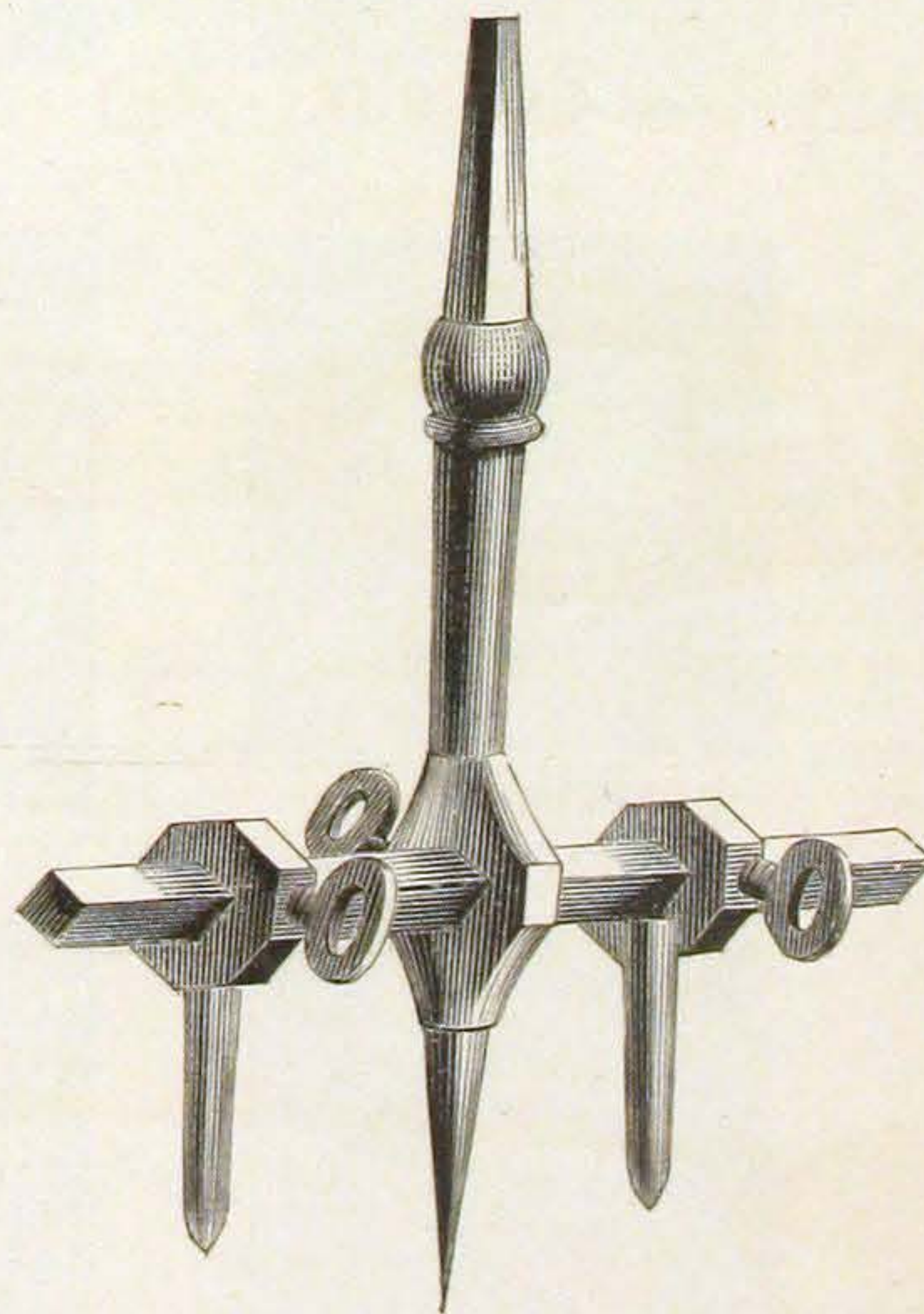
No. 1.  
Steel.

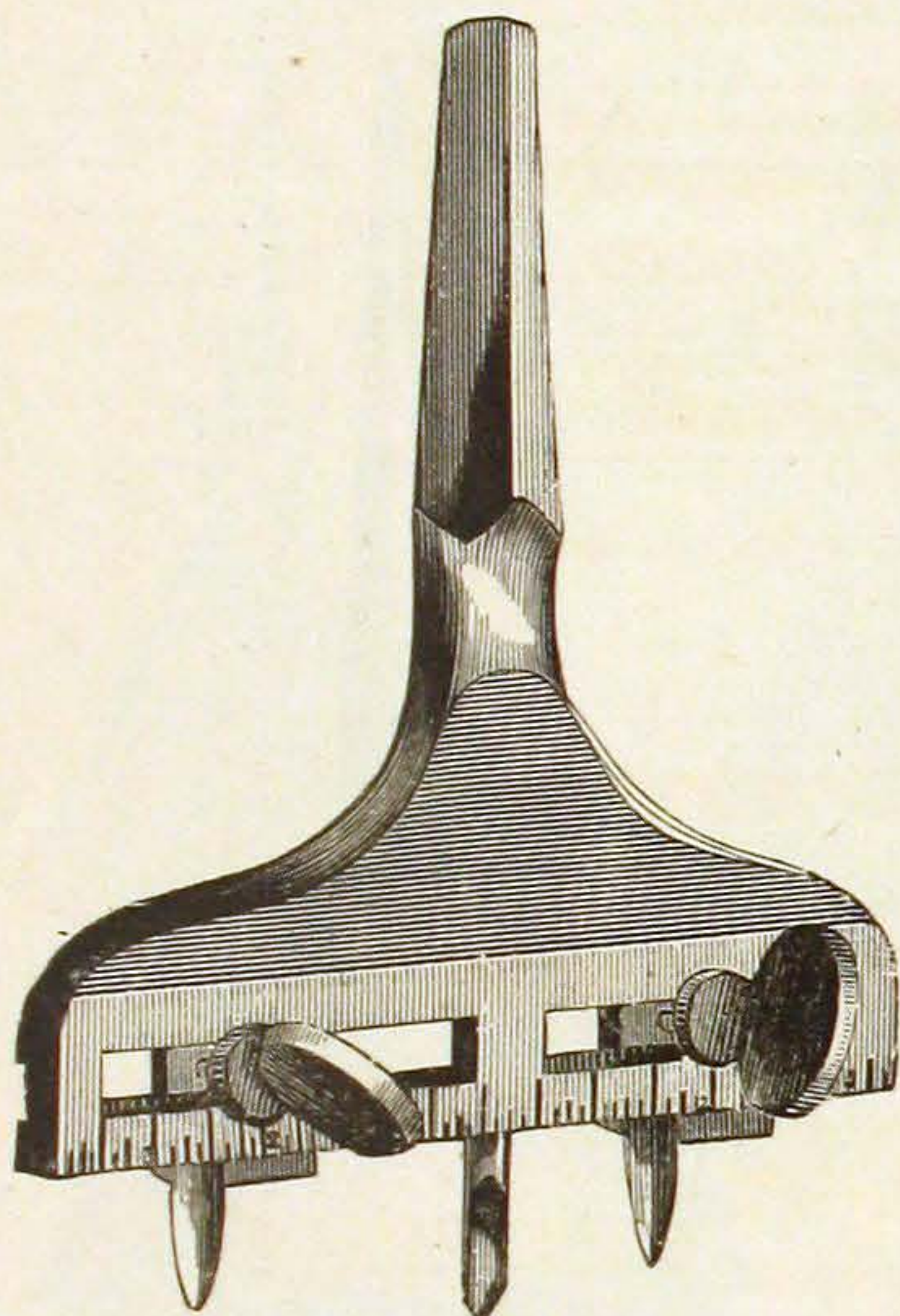
Fig. 358.

No. 2.  
Steel.



WASHER CUTTERS,  
WASHER CUTTER.

Fig. 359.



Cast Iron.

Belt Punch.

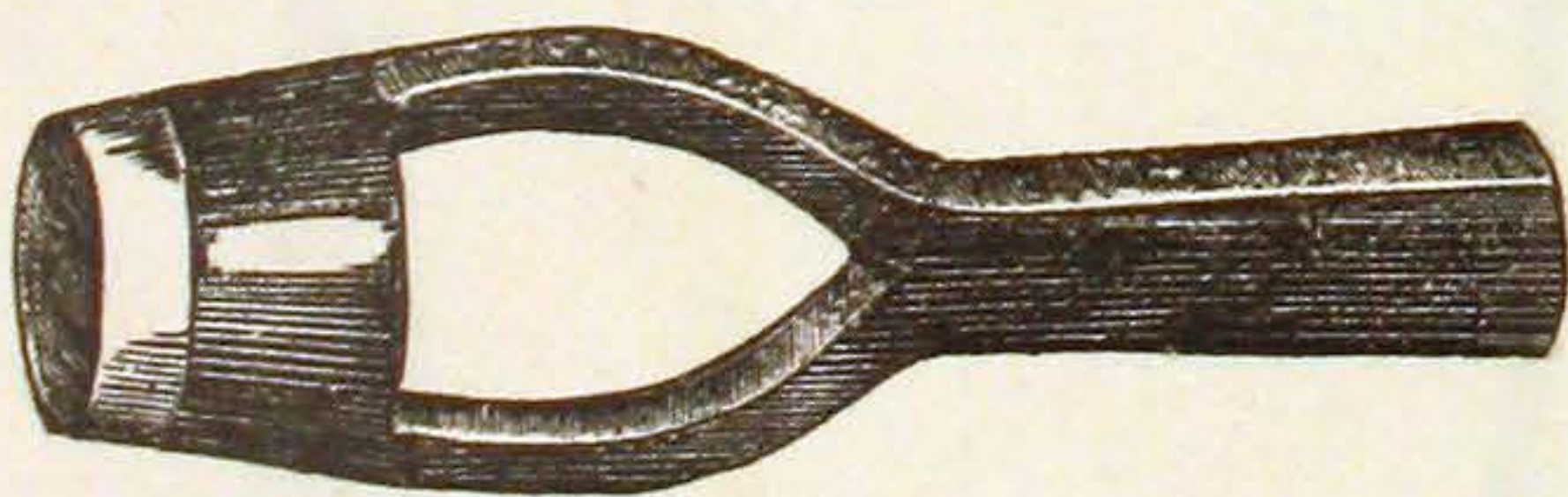
Fig. 362.



All Numbers.

Large Belt Punch.

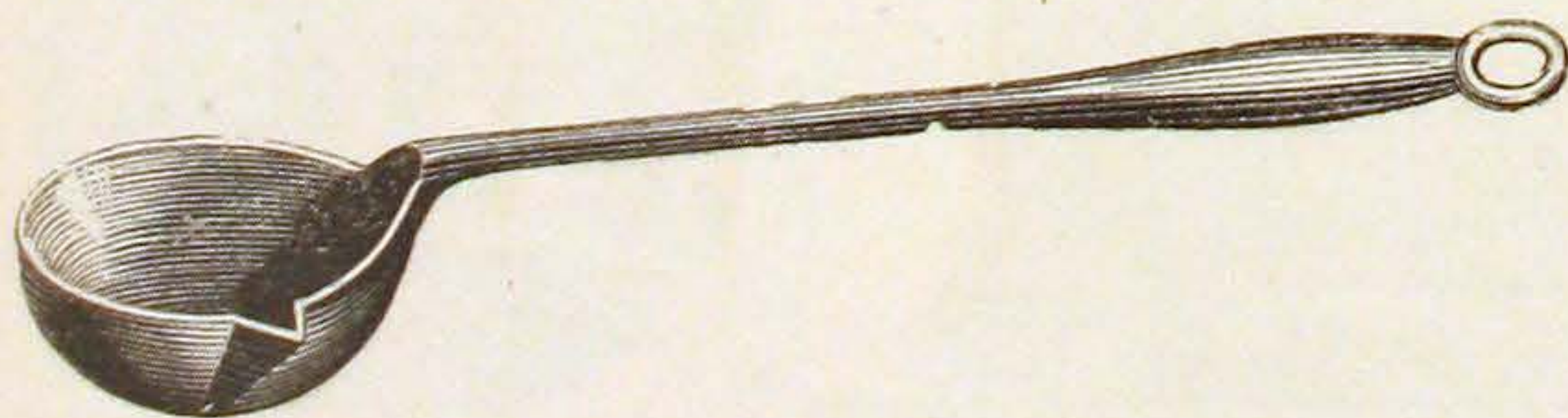
Fig. 363.



All Sizes.

Melting Ladle.

Fig. 365.



Wrought or Cast Iron.

BELT HOOKS &c.  
BELT HOOK.

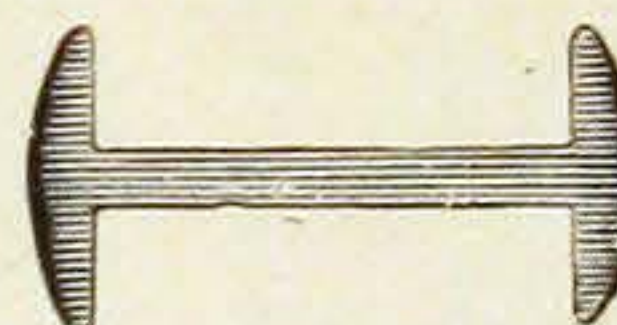
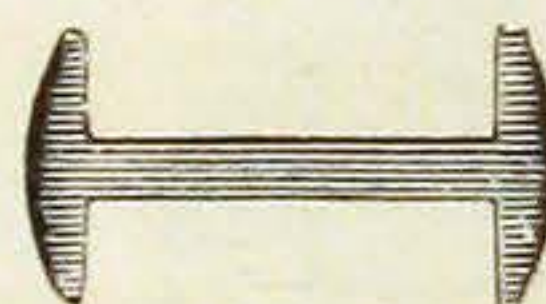
Fig. 360.



All Sizes.

Belt Studs.

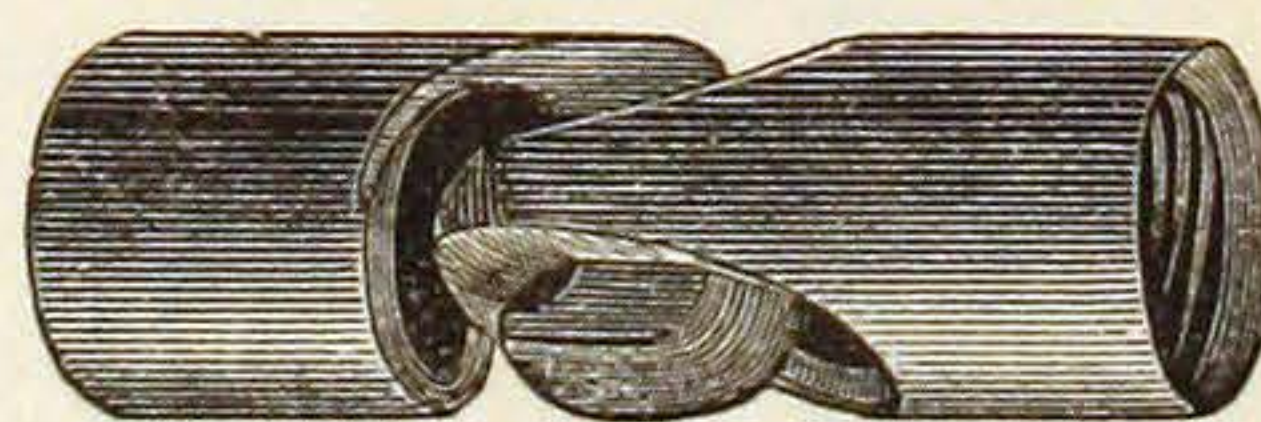
Fig. 361.



All Sizes.

Round Belt Coupling.

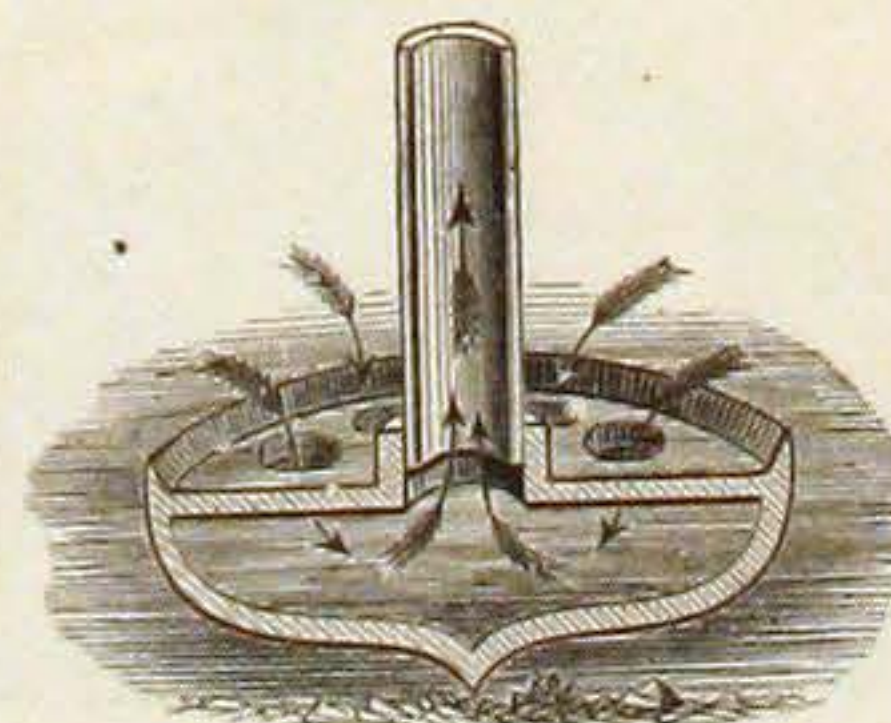
Fig. 364.



All Sizes.

Mushroom Strainer.

Fig. 365 $\frac{1}{2}$ .



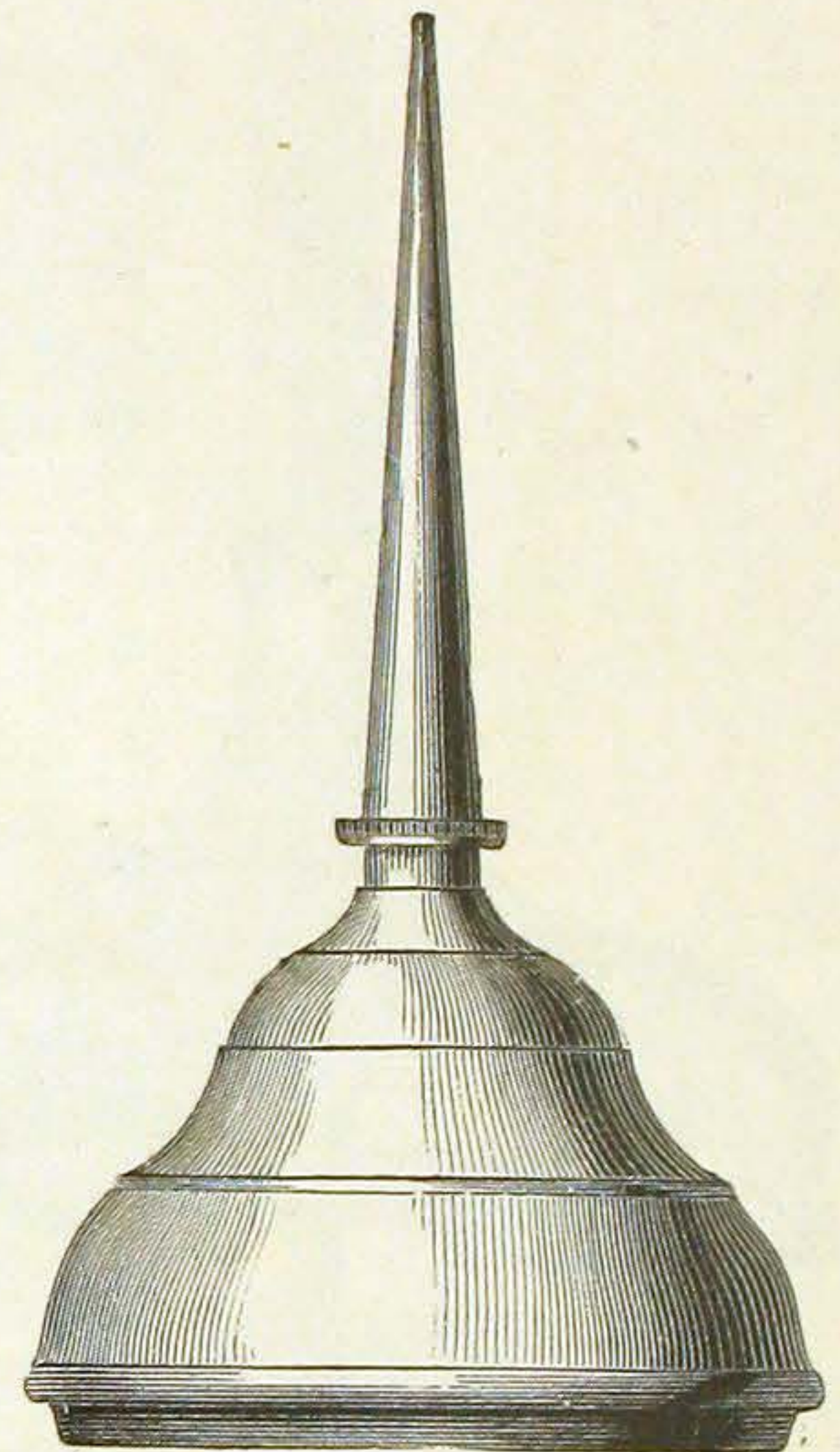
All Sizes of Pipe.



## OILERS.

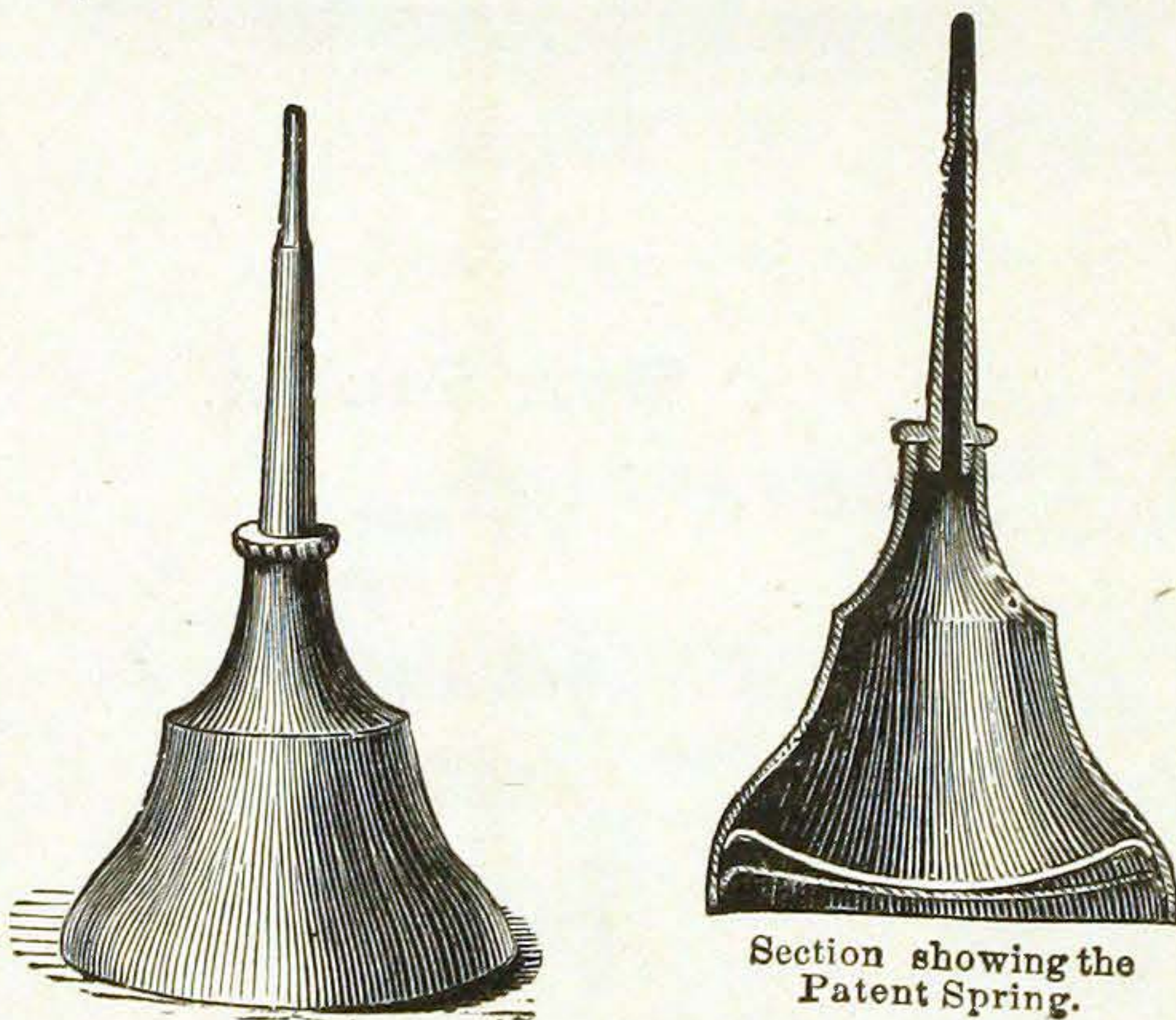
Malleable Iron Oilers. Broughton's Ext. Oiler.

Fig. 367.



Brass or Zinc.

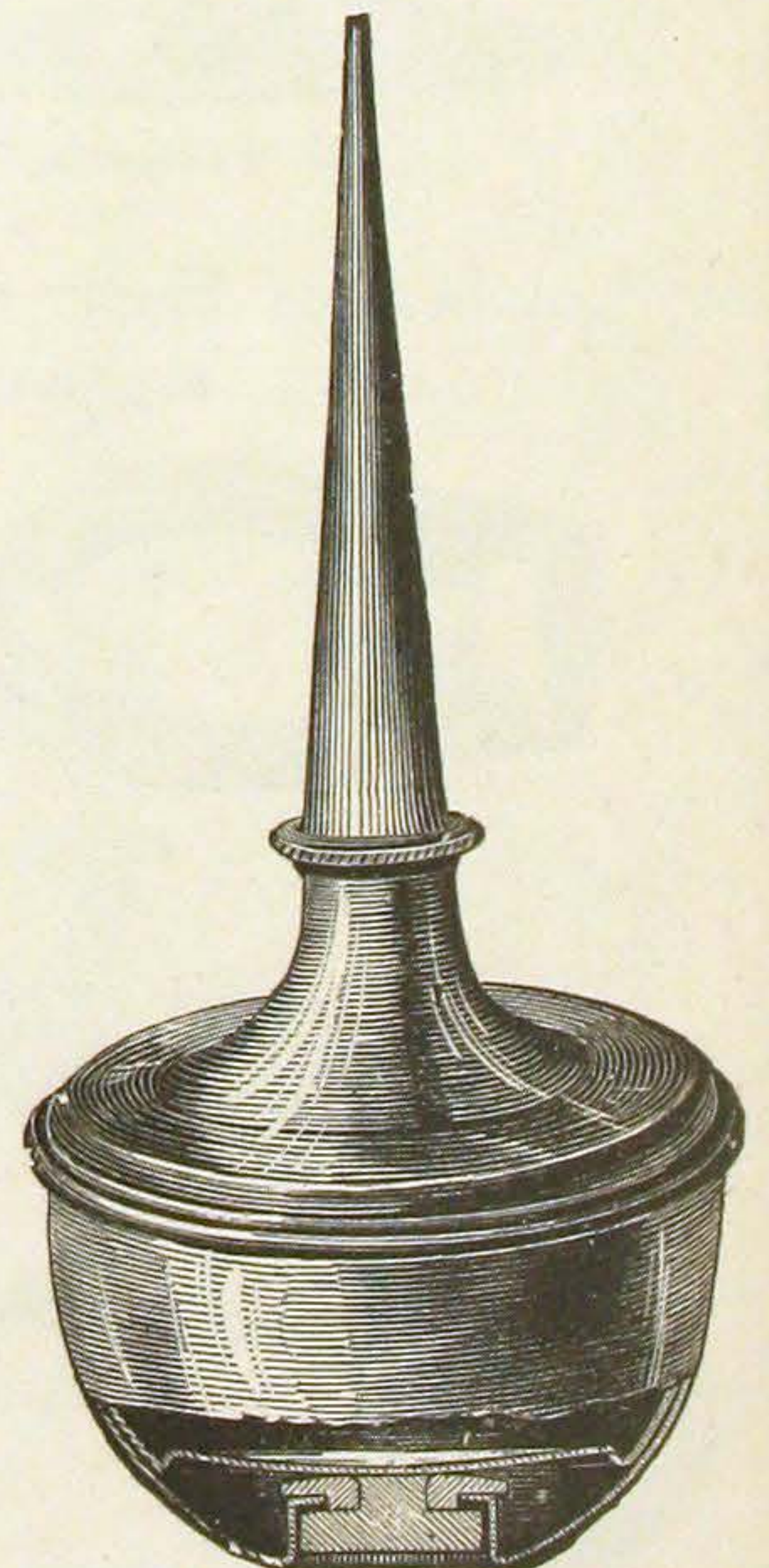
Fig. 366.

Section showing the  
Patent Spring.

Only one Size.

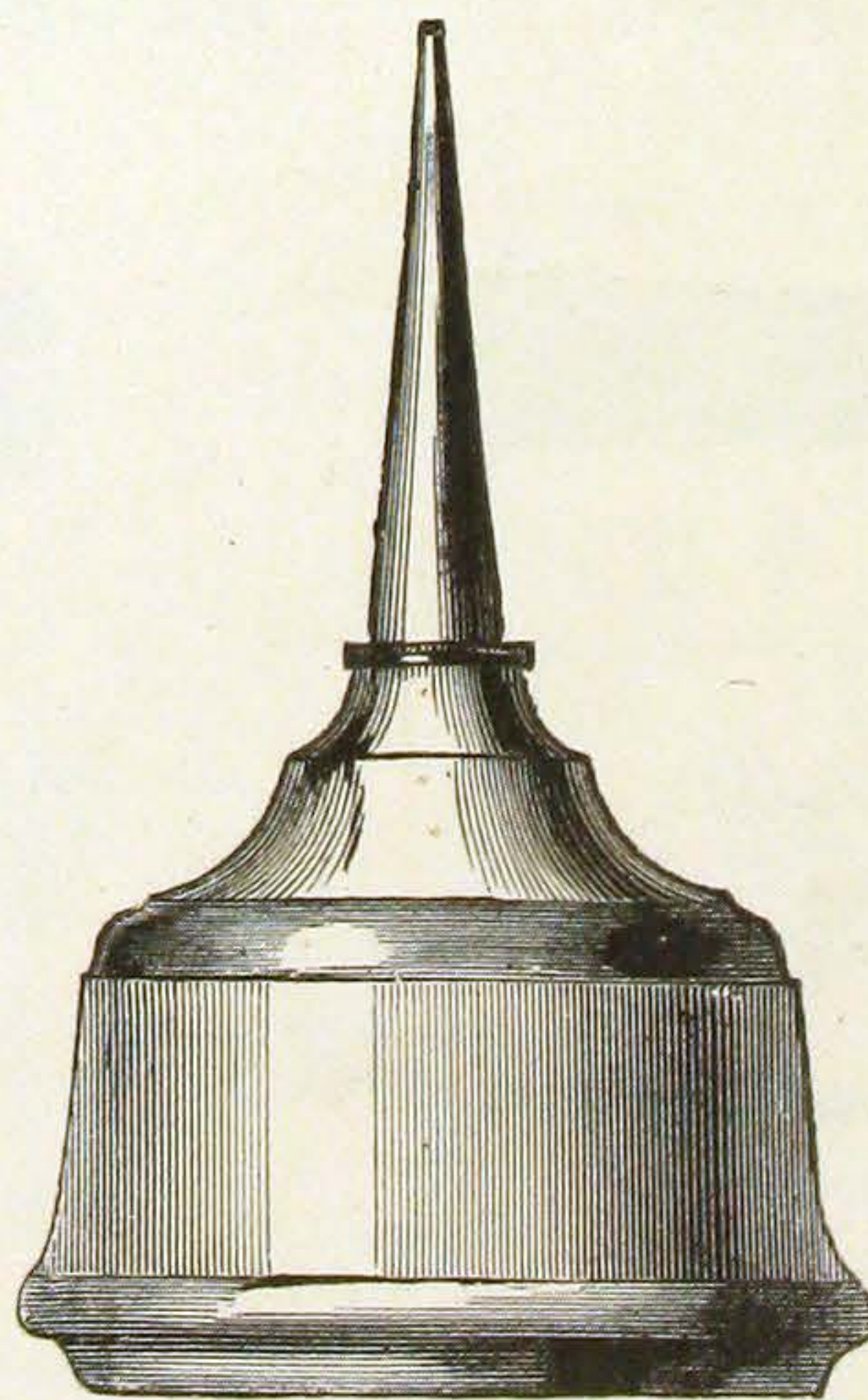
## Broughton's Oilers.

Fig. 370.



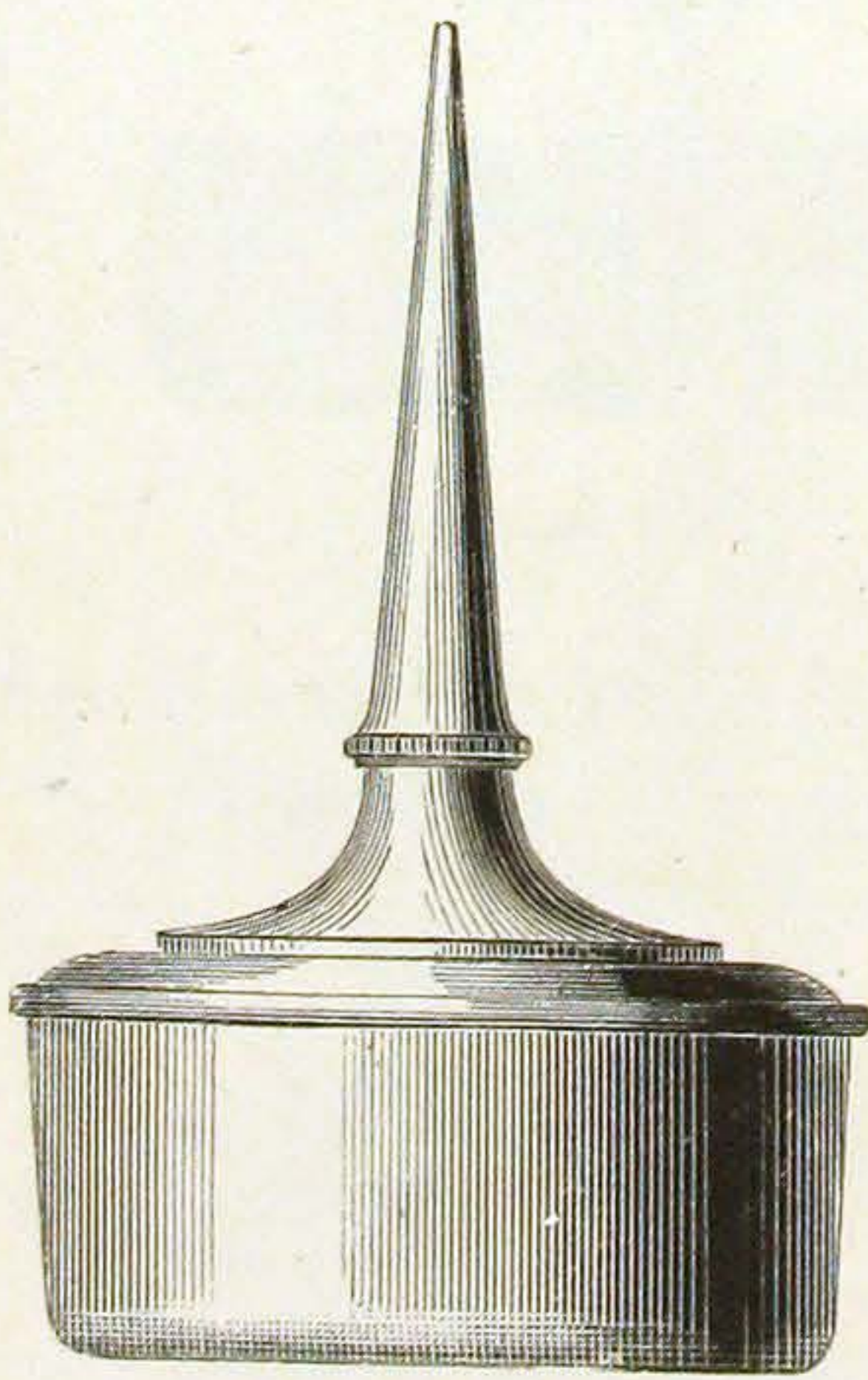
Double Bottom.

Fig. 369.



Rail Road.

Fig. 368.



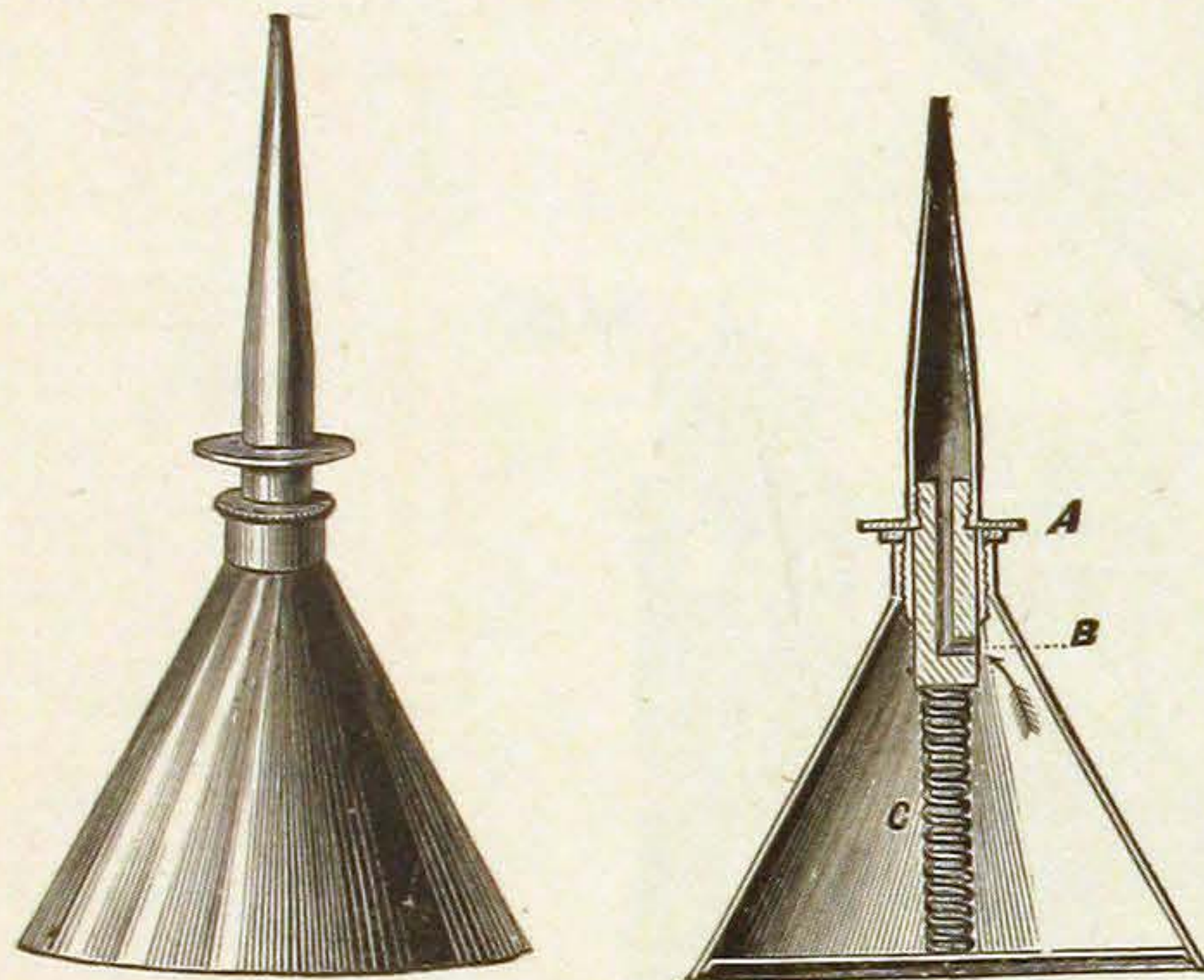
Seamless.



# OILERS AND LAMPS.

Gardner's Pat. Automatic Oilers.

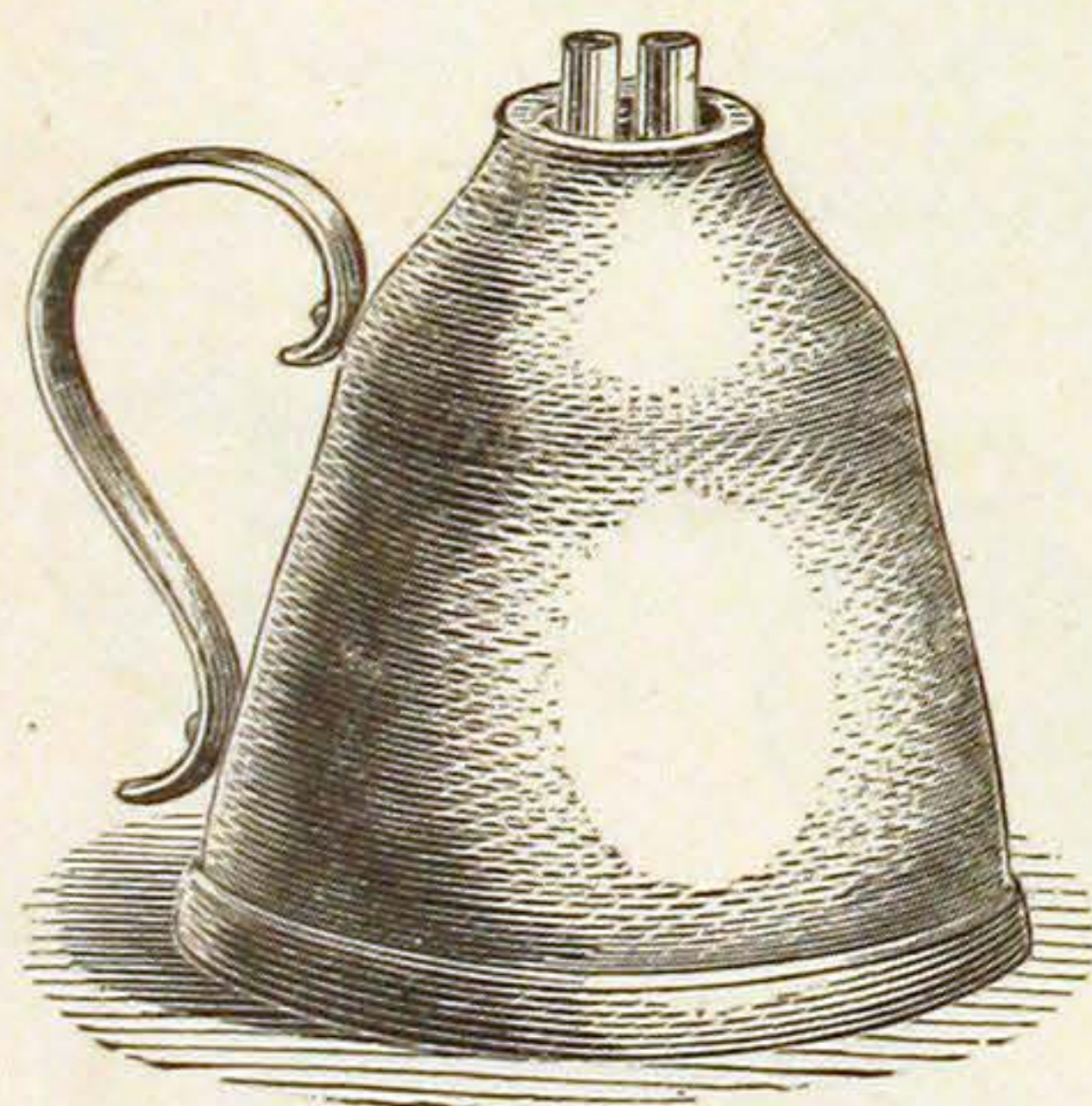
Fig. 371.



Iron.

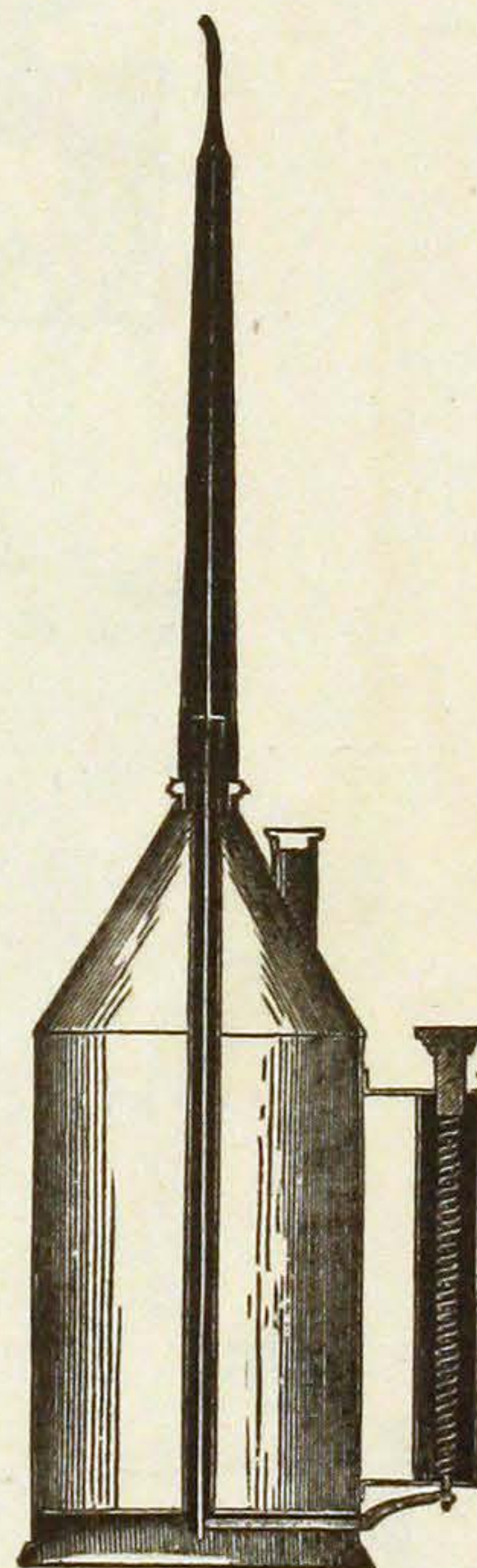
Malleable Iron Lamp.

Fig. 372.



One Size only.

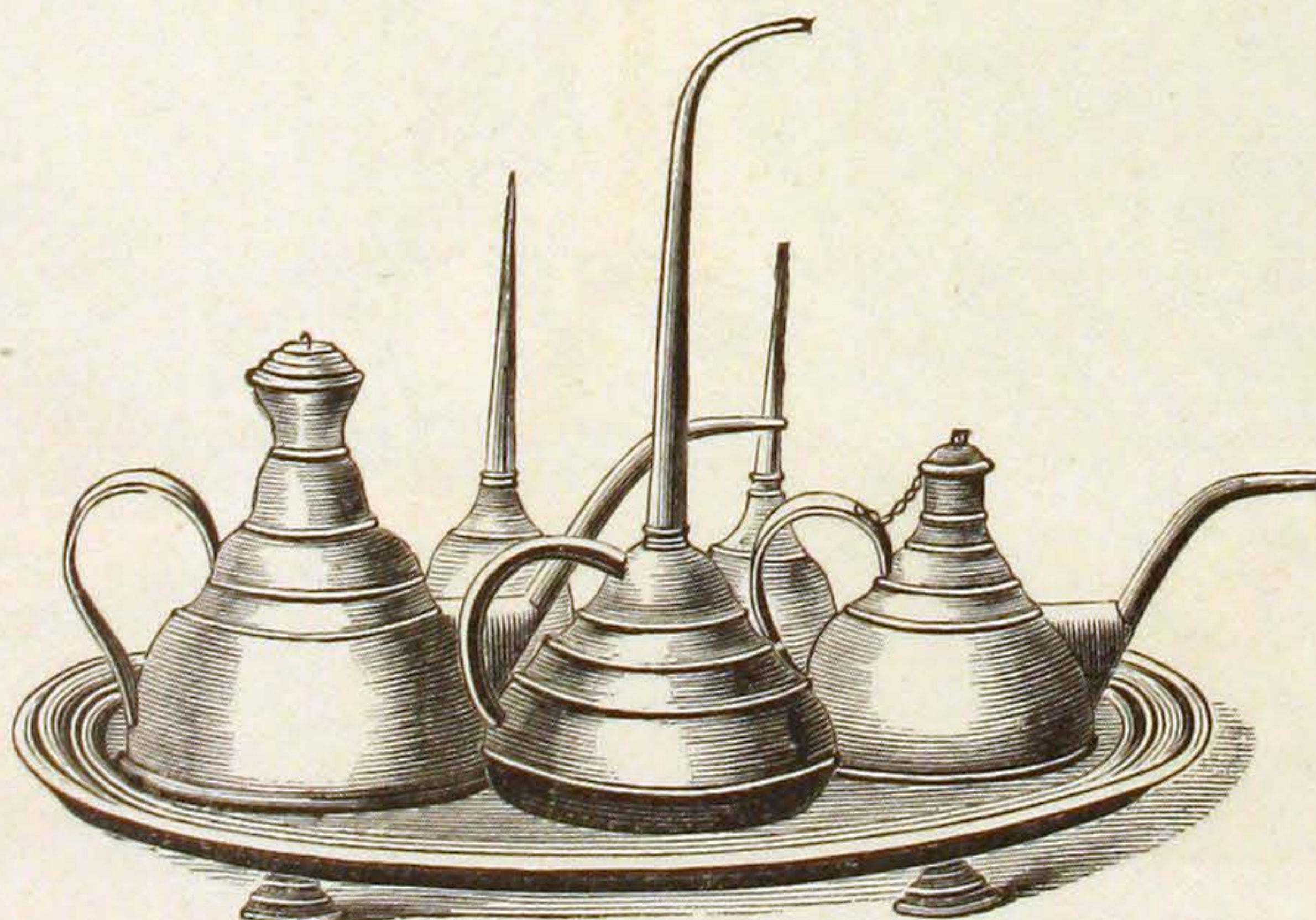
Fig. 373.



1, 2 and 3 Pints.

Oiler Sets.

Fig. 374.

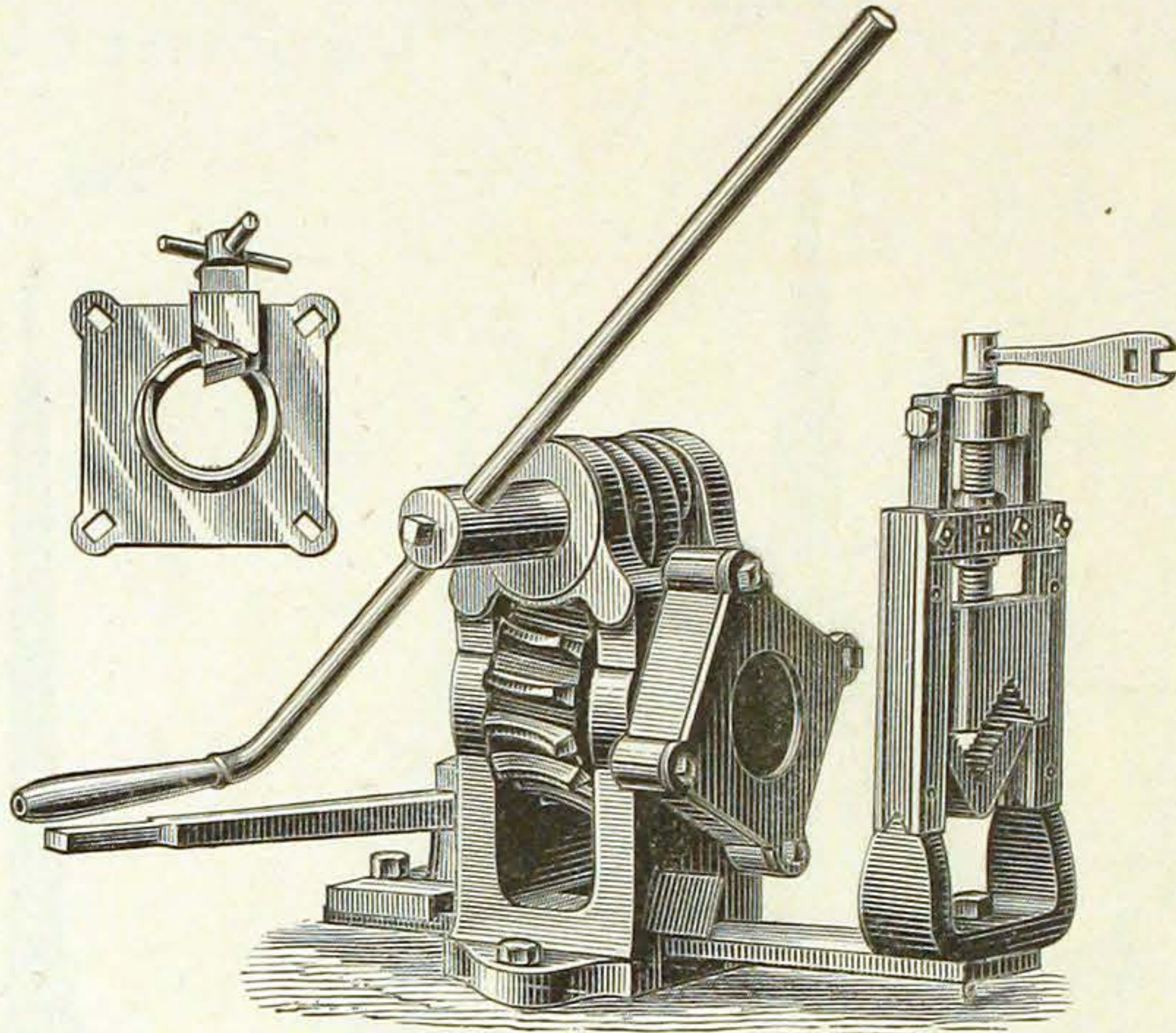


With 3 or 5 Cans.



# PIPE MACHINES. LITTLE GIANT PIPE MACHINE.

Fig. 375.

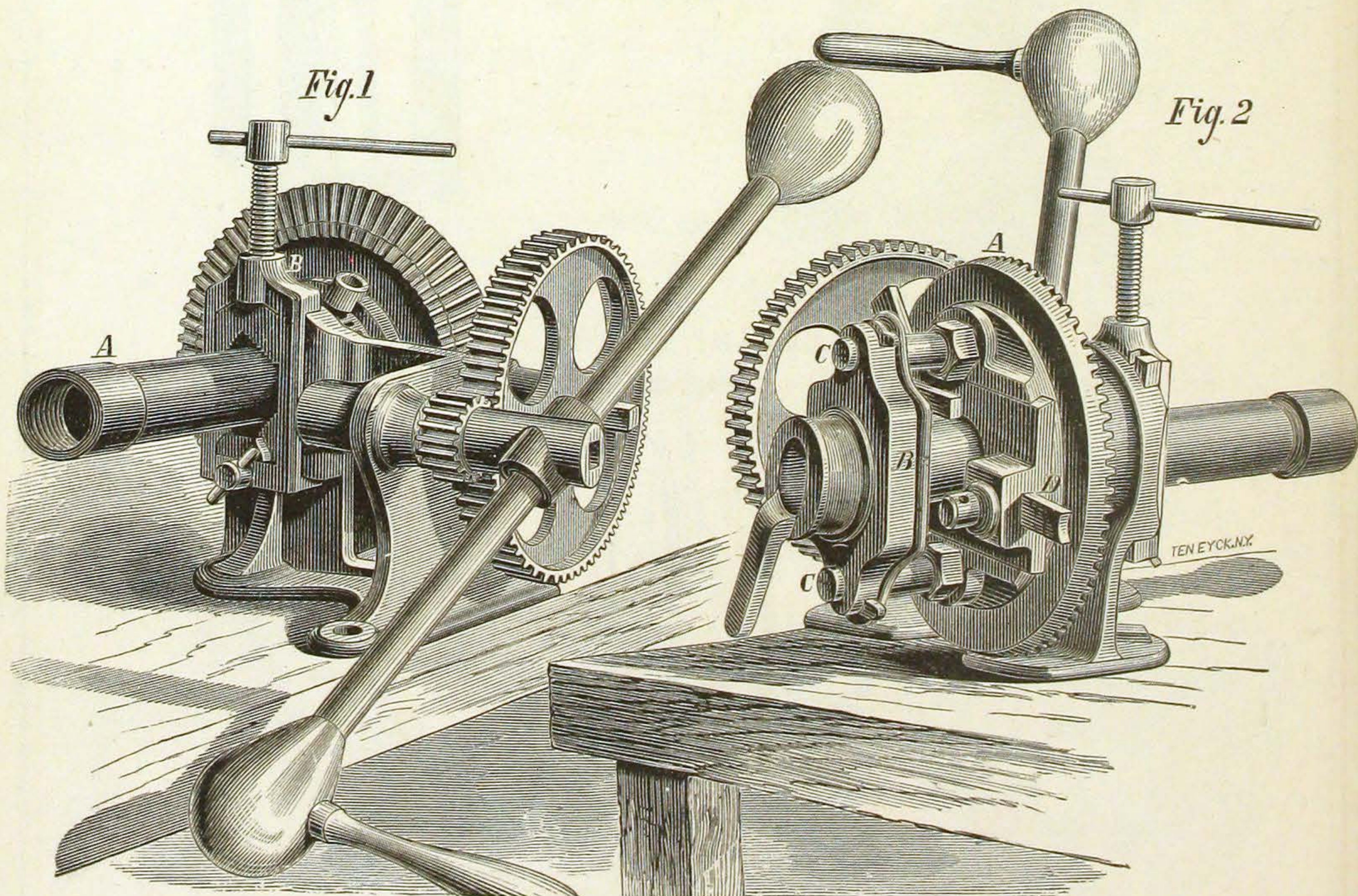


No. 1, Hand, Self-Feeding, Cuts and Screws from  $\frac{1}{8}$  to 2 in. Pipe.  
 No. 2, " " " " " " 1 to 3 " "  
 No. 3, " " " " " " 2 to 4 " "

The lightest, strongest and cheapest Machine in use.

## CHASE'S PIPE MACHINE.

Fig. 376.

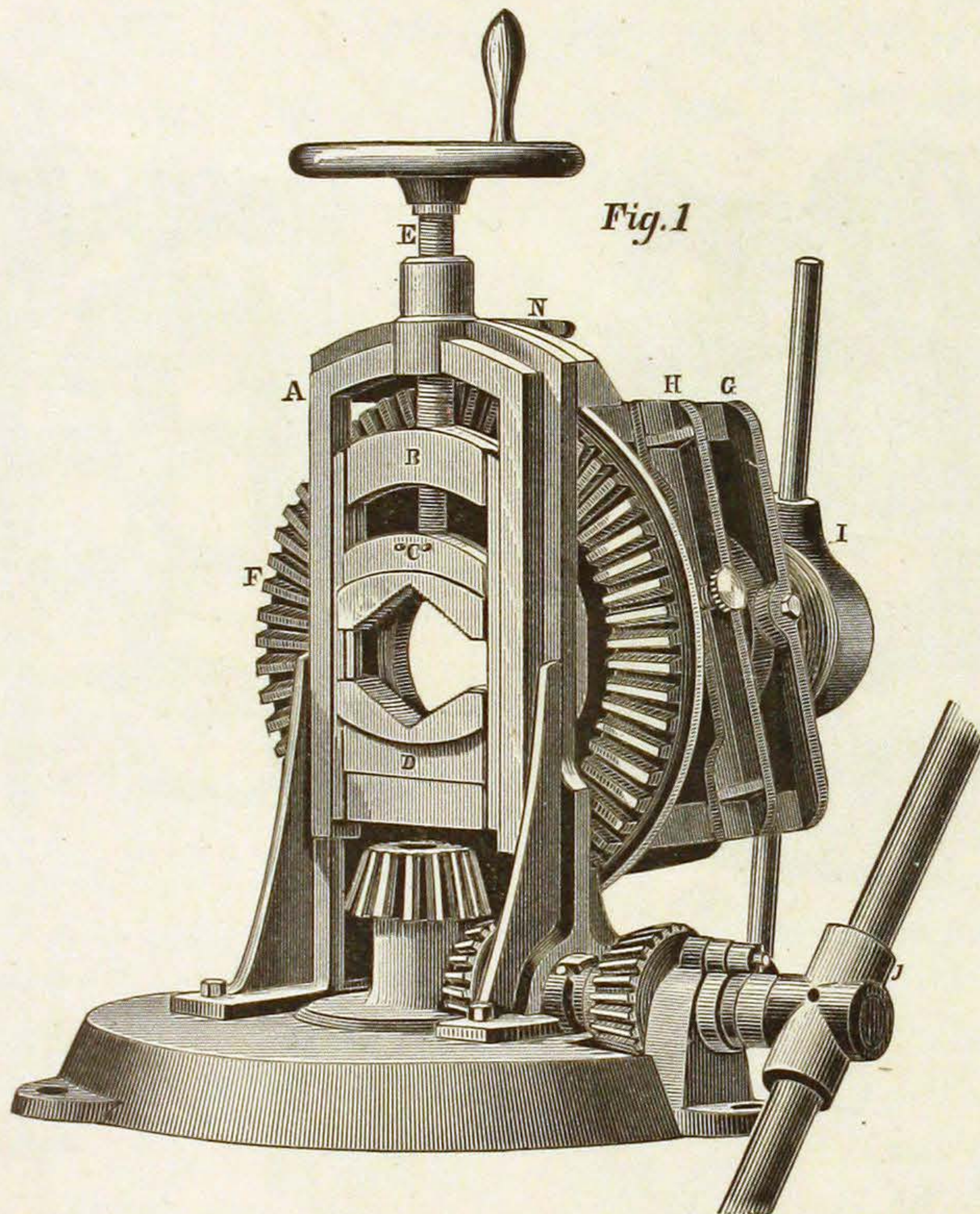


Hand, Cuts and Screws from  $\frac{1}{8}$  to 2 in. Pipe.  
 Power, " " " "  $\frac{1}{8}$  to 2 " "



# PIPE MACHINE. EMPIRE PIPE MACHINE.

Fig. 377.

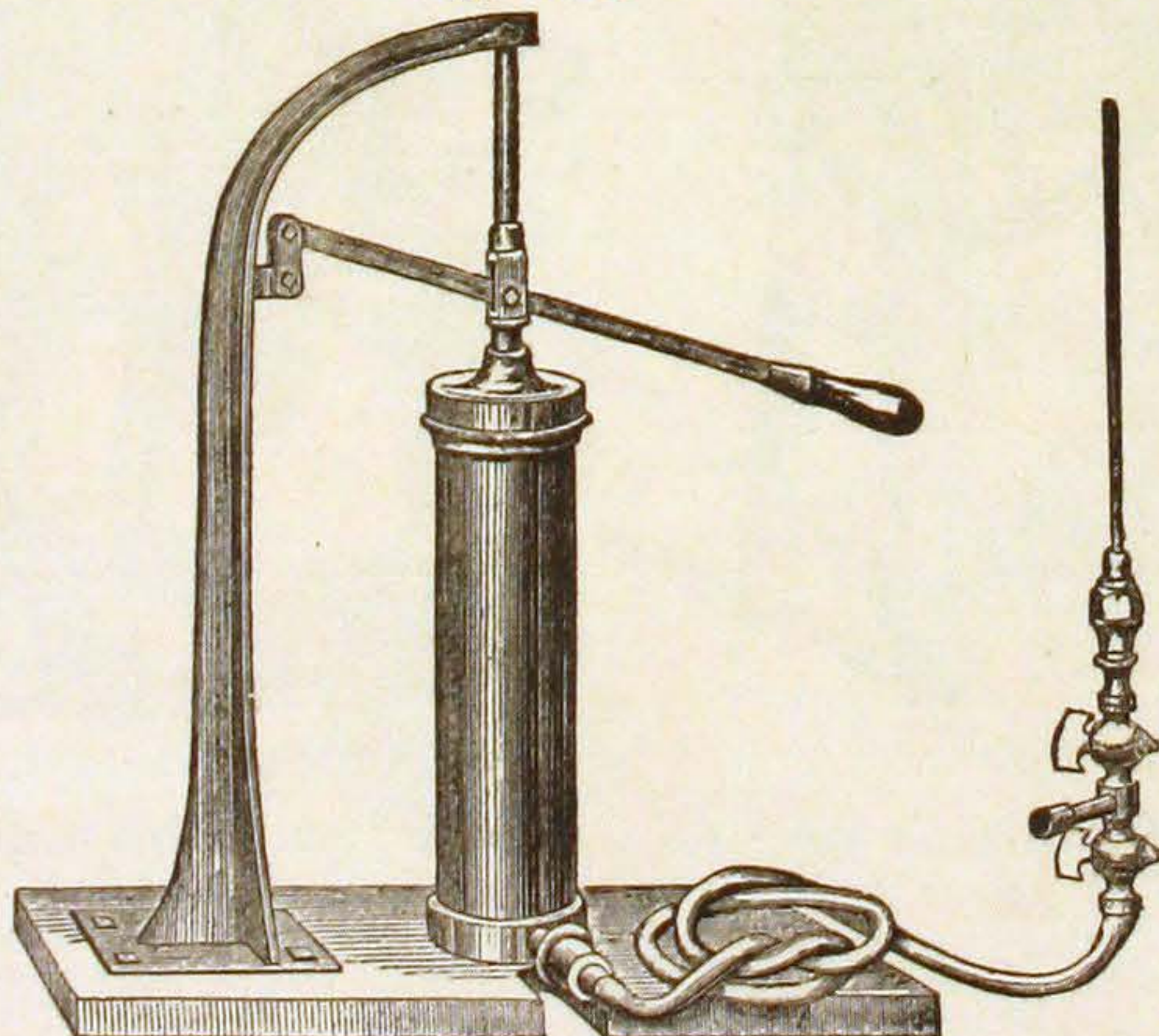


Hand, Cuts and Screws from  $\frac{3}{4}$  to 3 in. Pipe.  
Power, " " " "  $\frac{3}{4}$  to 3 " "

A full set of Sockets and Tubes for making Nipples furnished with each Machine.

## STREET MAIN PROVING PUMP.

Fig. 382.



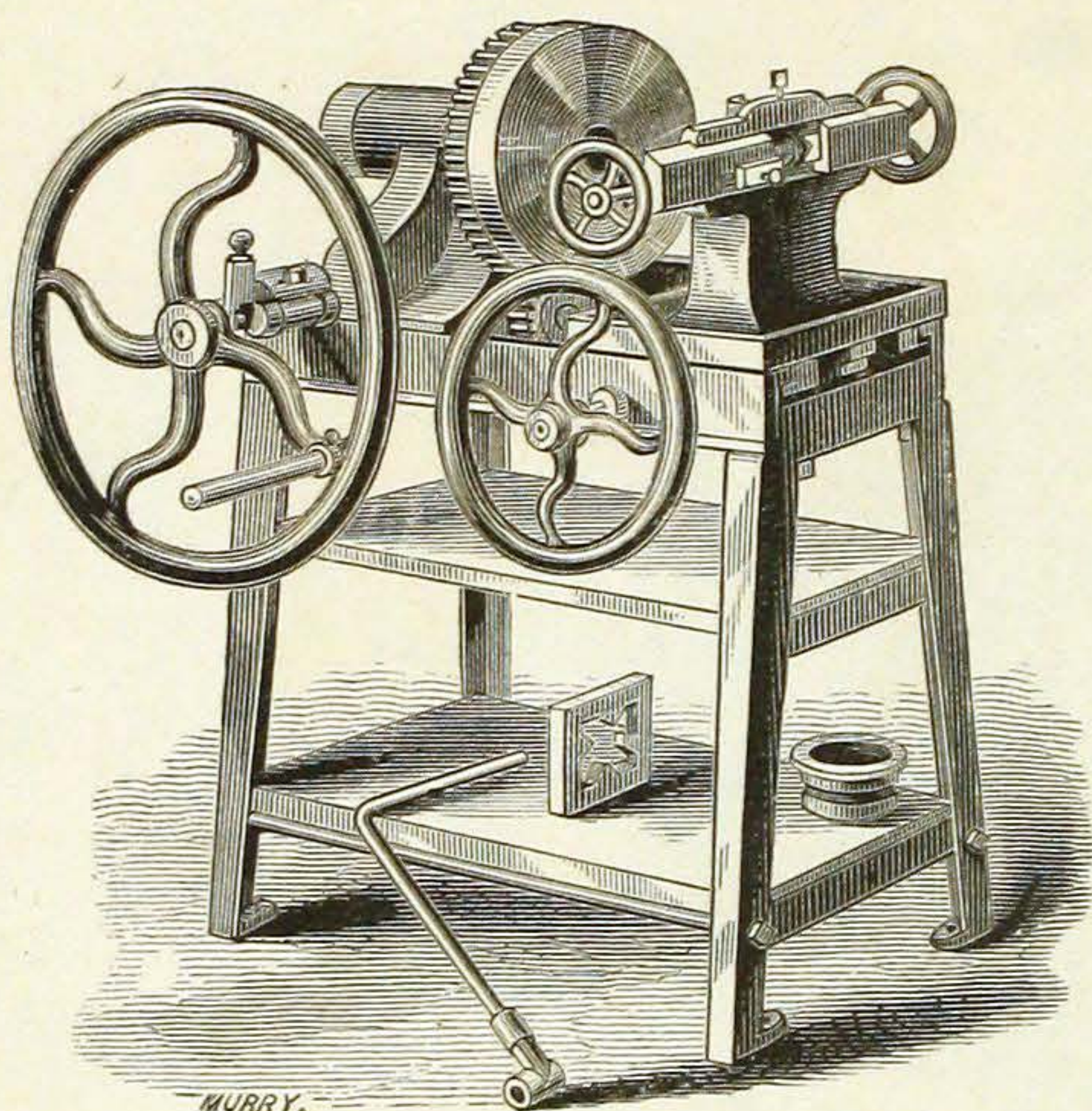


## PIPE MACHINES.

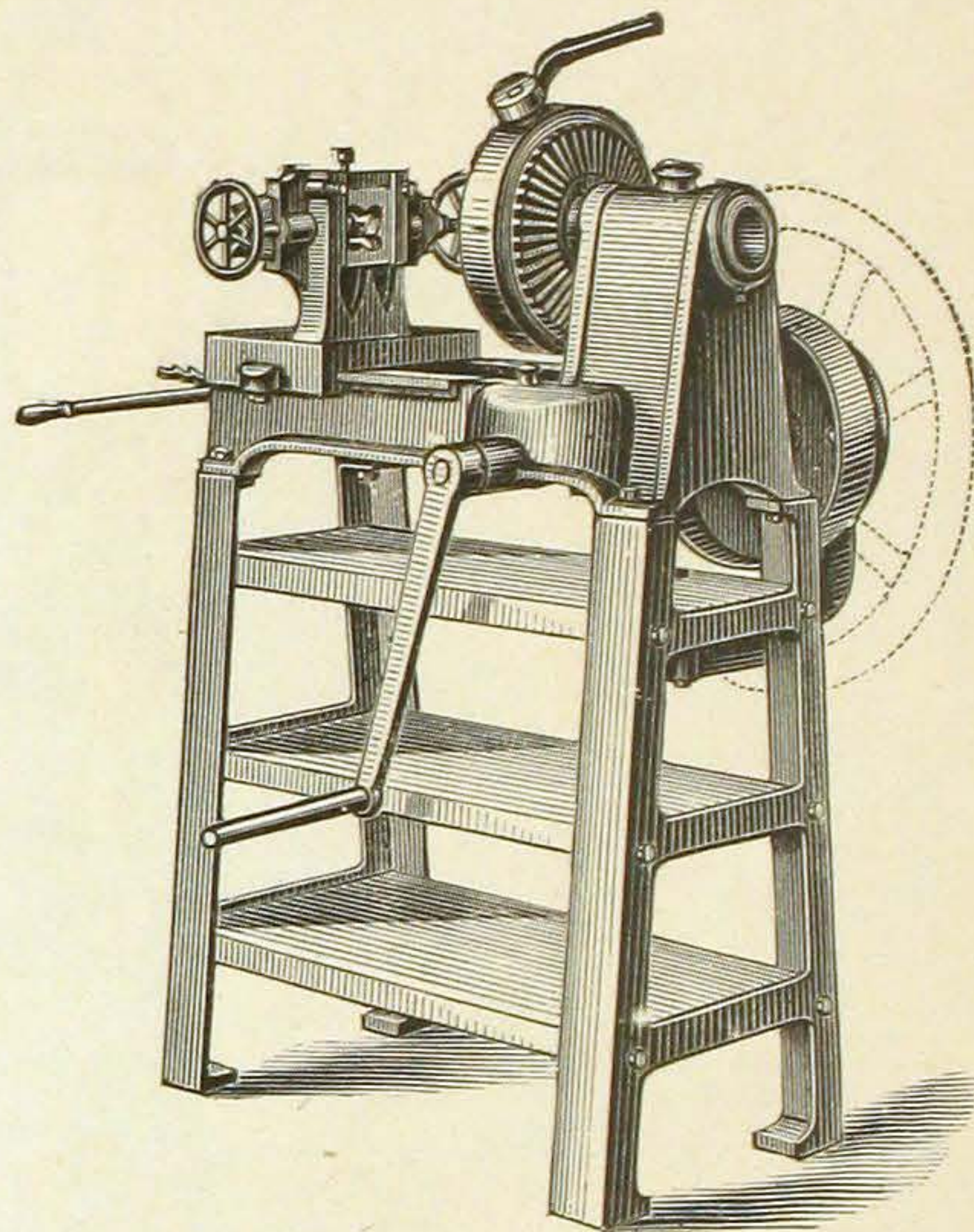
SAUNDERS' MACHINE. M. T. &amp; CO'S MACHINE.

Fig. 379.

Fig. 378.



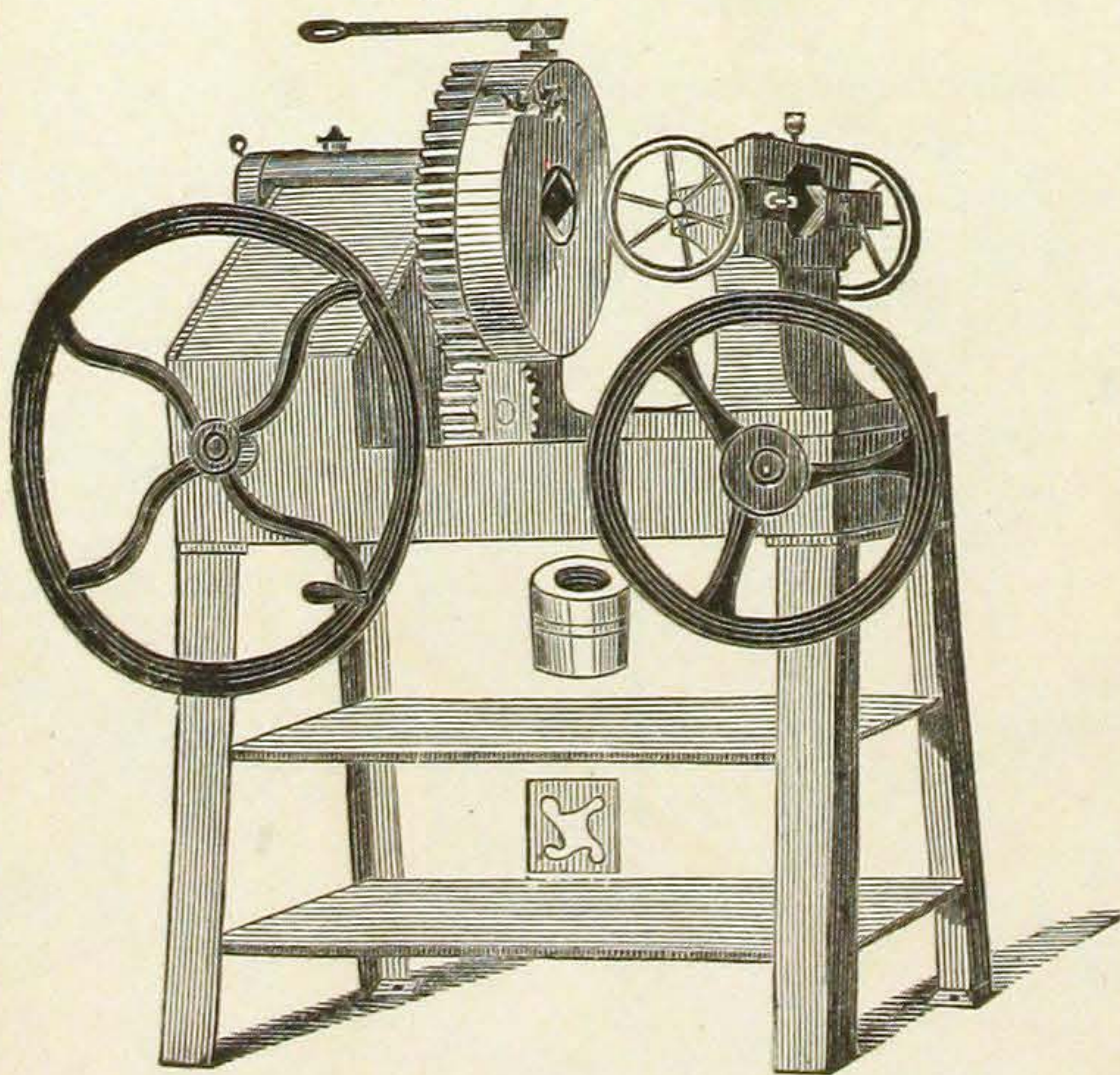
No. 2, for Hand or Power.  
Larger Sizes, to order.



No. 2, for Hand or Power.  
No. 3 Machine takes from  $\frac{3}{8}$  to 4 inch.  
No. 4 " " " 1 to 6 inch.

## CAMDEN MACHINES.

Fig. 380.

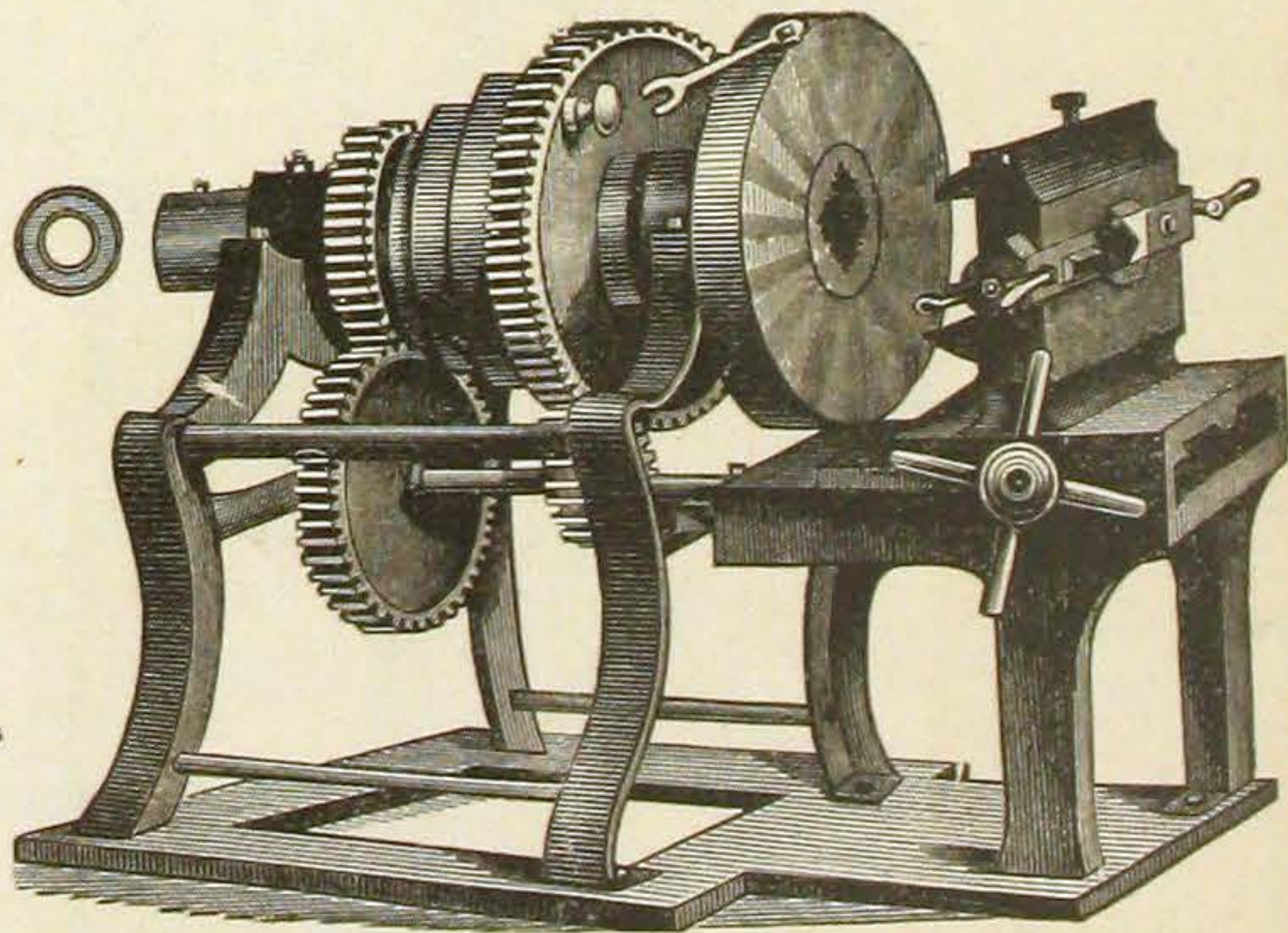


No. 2, for Hand or Power.

No. 3 Machine, similar to No. 4, takes from  $\frac{1}{8}$  to 2 inch pipe.

No. 5	"	"	"	"	"	"	$\frac{1}{4}$ to 4	"	"
No. 6	"	"	"	"	"	"	1 to 6	"	"
No. 8	"	"	"	"	"	"	$2\frac{1}{2}$ to 8	"	"

Fig. 381.



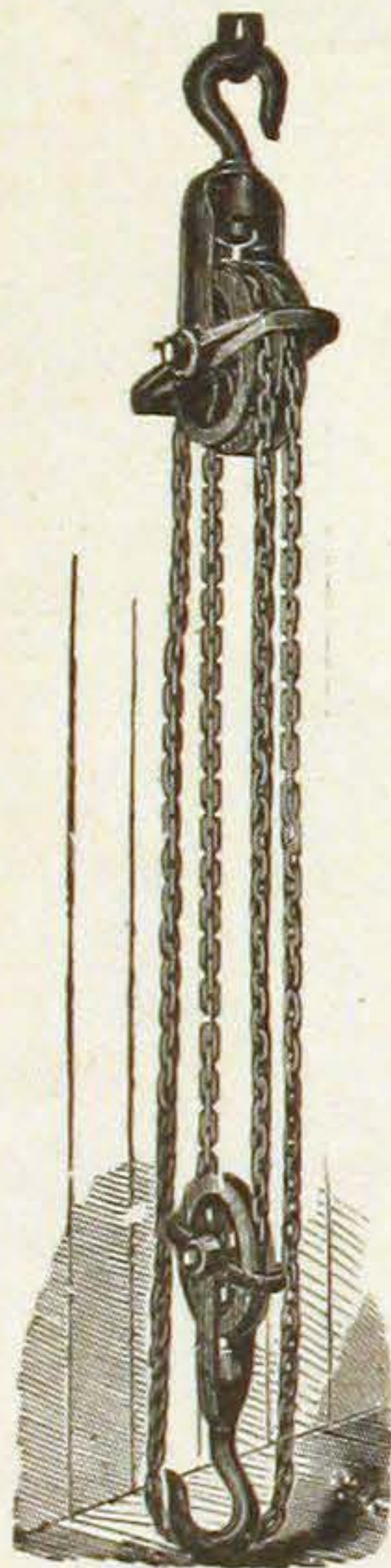
No. 4, takes from  $\frac{1}{4}$  to 3 inch Pipe.



# PULLEY BLOCKS AND JACK SCREWS.

Differential Wrought Iron Blocks.  
 Pulley Block. Fig. 383. Fig. 384. Fig. 385.

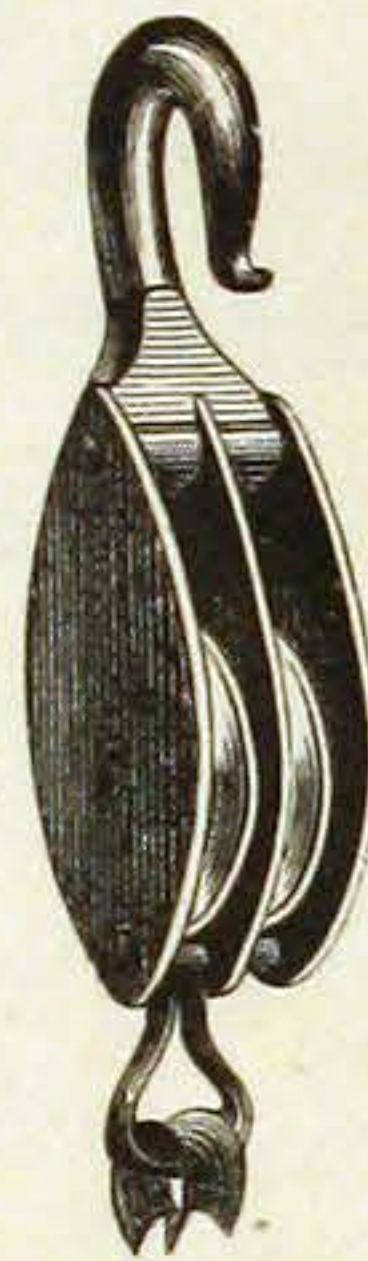
Fig. 389.



$\frac{1}{4}$ ,  $\frac{1}{2}$ , 1,  $1\frac{1}{2}$ , 2 Tons and over.



Single.



Double.



Triple.

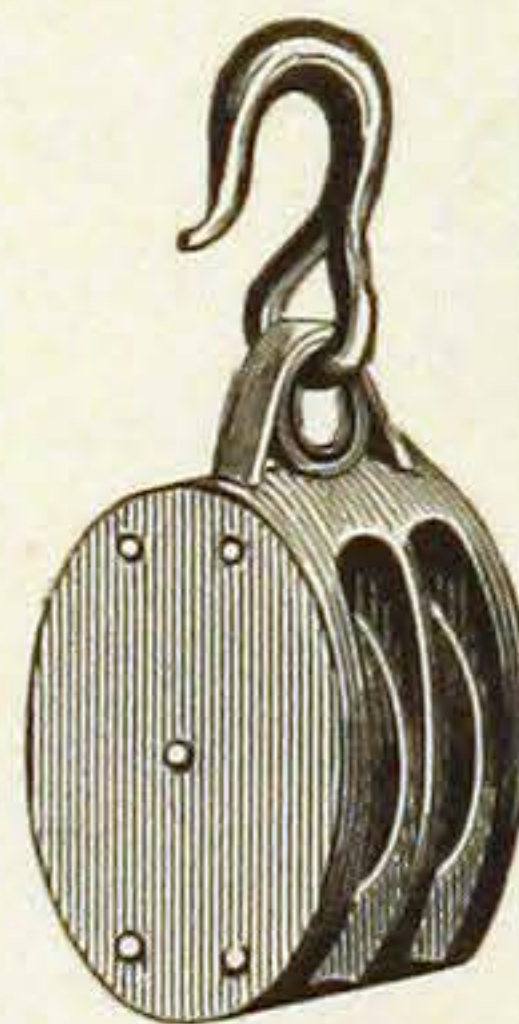
## Wooden Pulley Blocks.

Fig. 386.



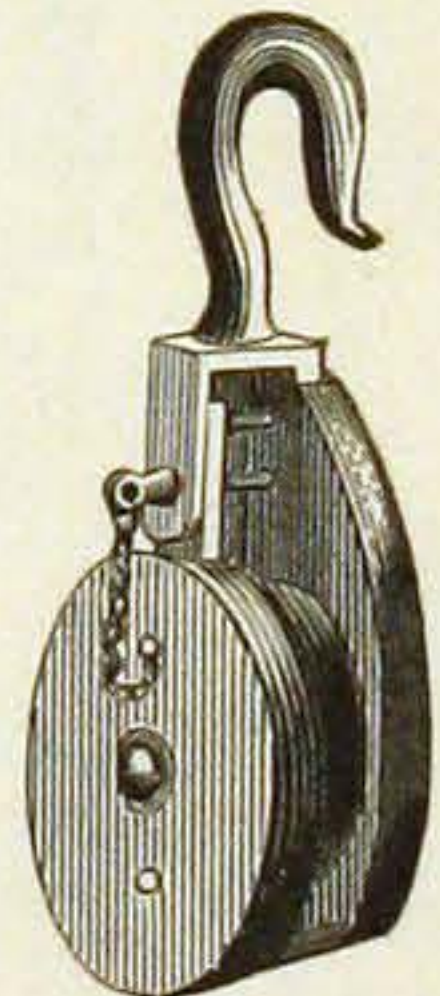
Single.

Fig. 387.



Double.

Fig. 388.



Snatch.

## Jack Screw.

Fig. 390.



Bell Bottom.

## Dudgeon's Hydraulic Jacks.

Fig. 391.

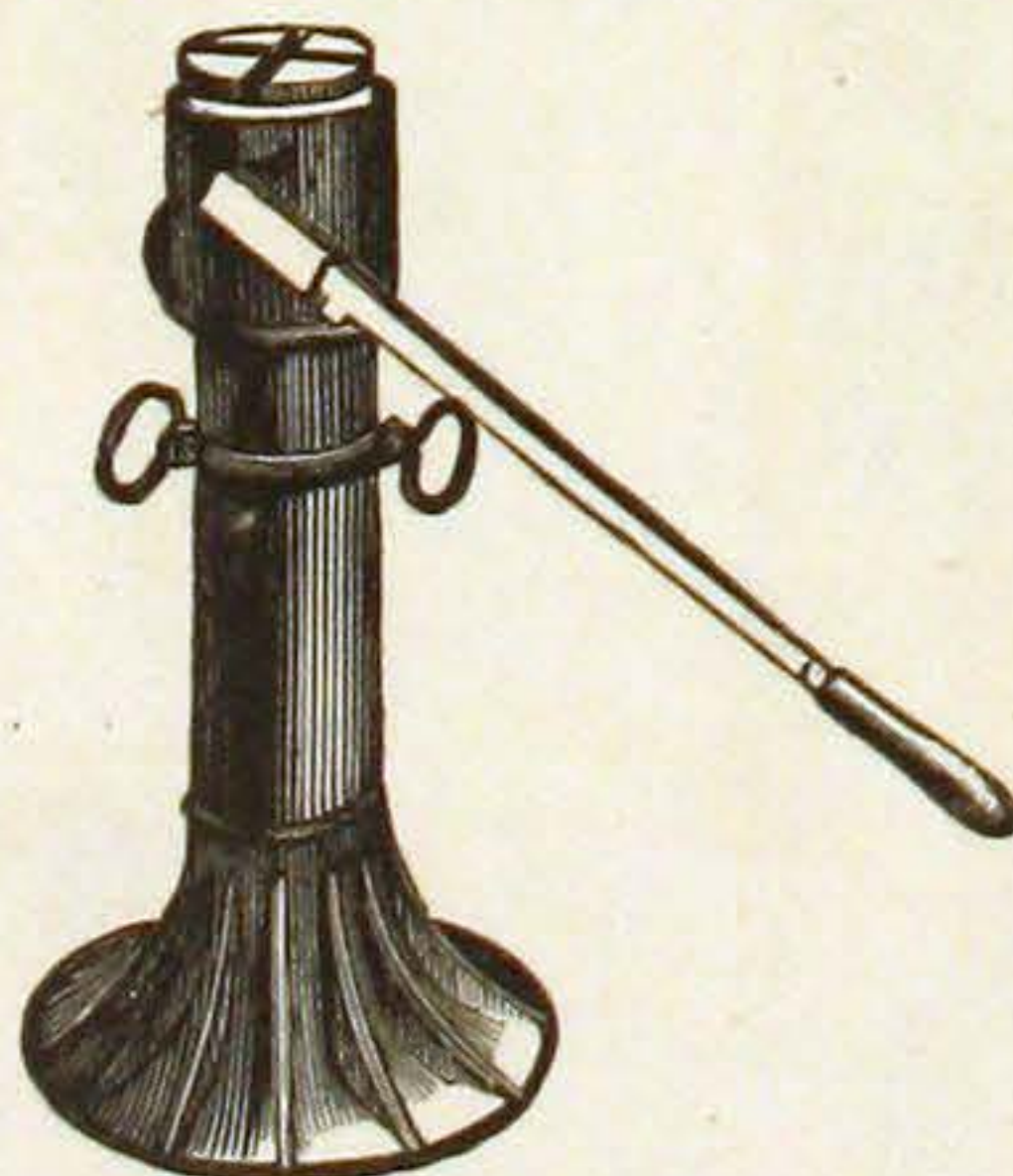
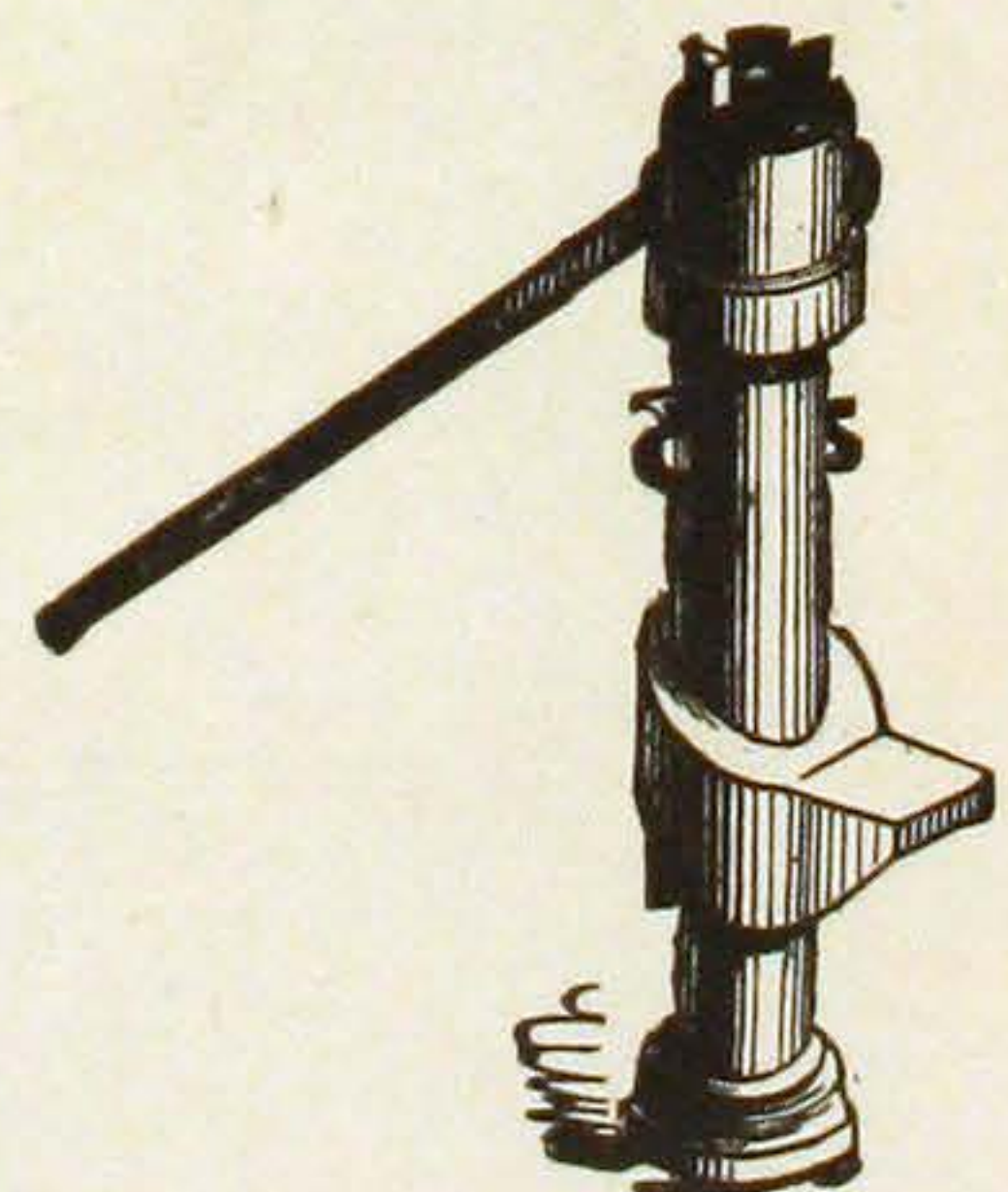


Fig. 392.

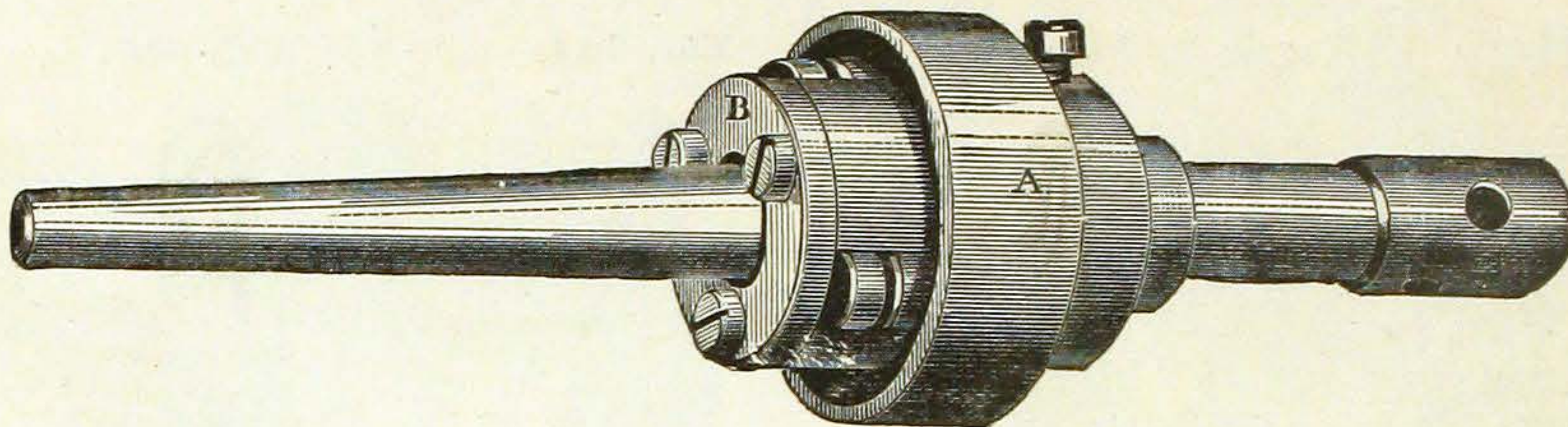


To Lift or Press from 4 to 120 Tons.



# FLUE EXPANDER, BOILER PUNCH, &c. DUDGEON'S FLUE EXPANDER.

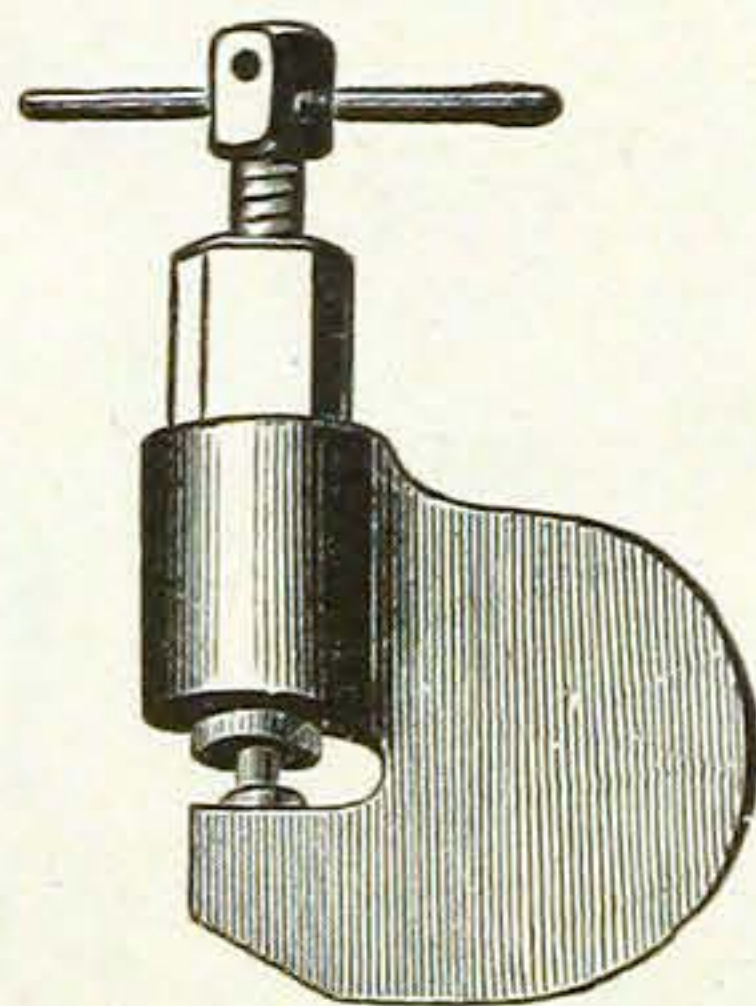
Fig. 393.



To take all Sizes of Flues.

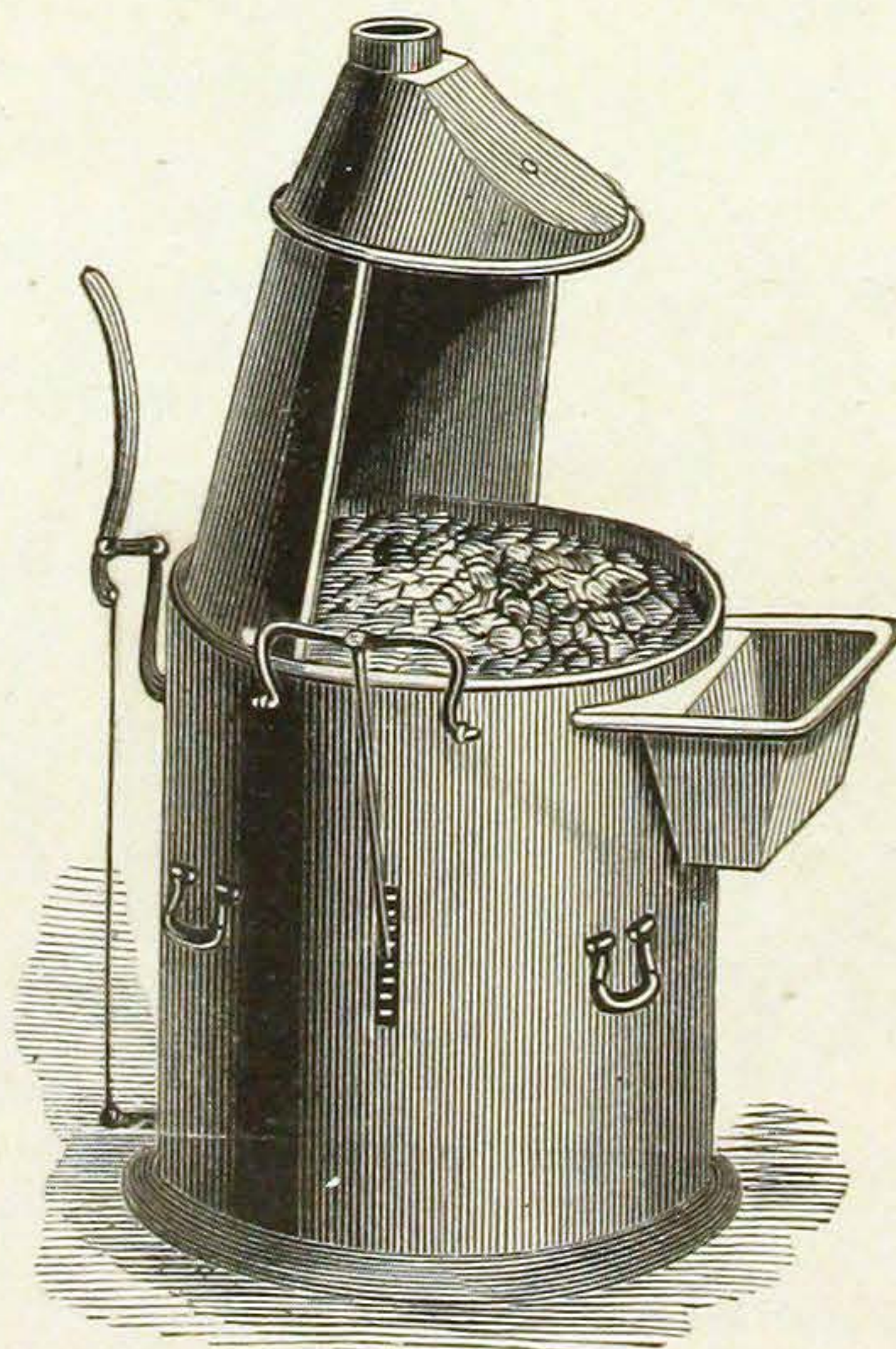
## Dudgeon's Hydraulic Boiler Punch.

Fig. 394.



## Portable Forges.

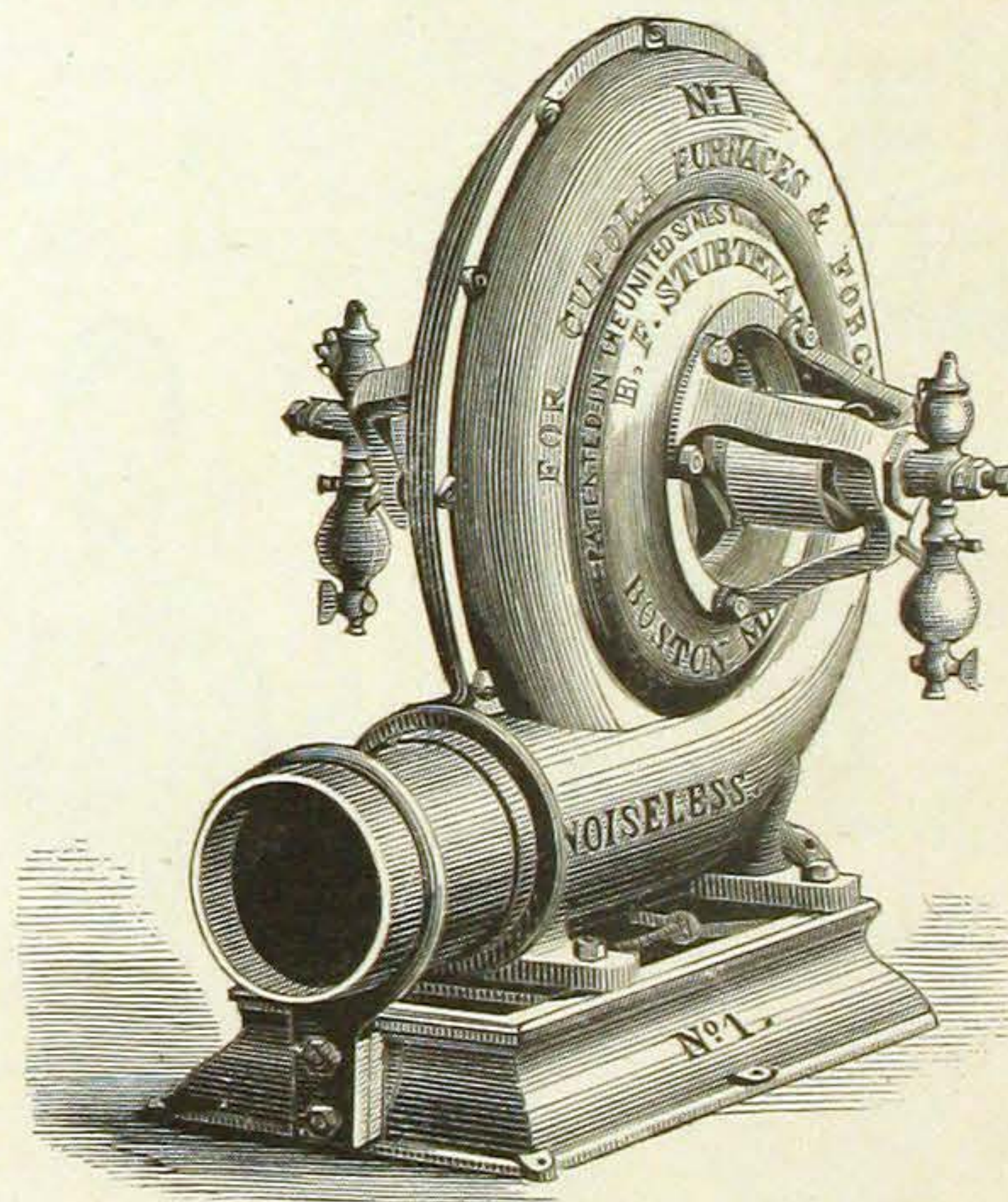
Fig. 396.



For Blacksmiths' purposes.

## Sturtevant Blowers.

Fig. 395.



All Sizes.

## Crucibles.

Fig. 397.

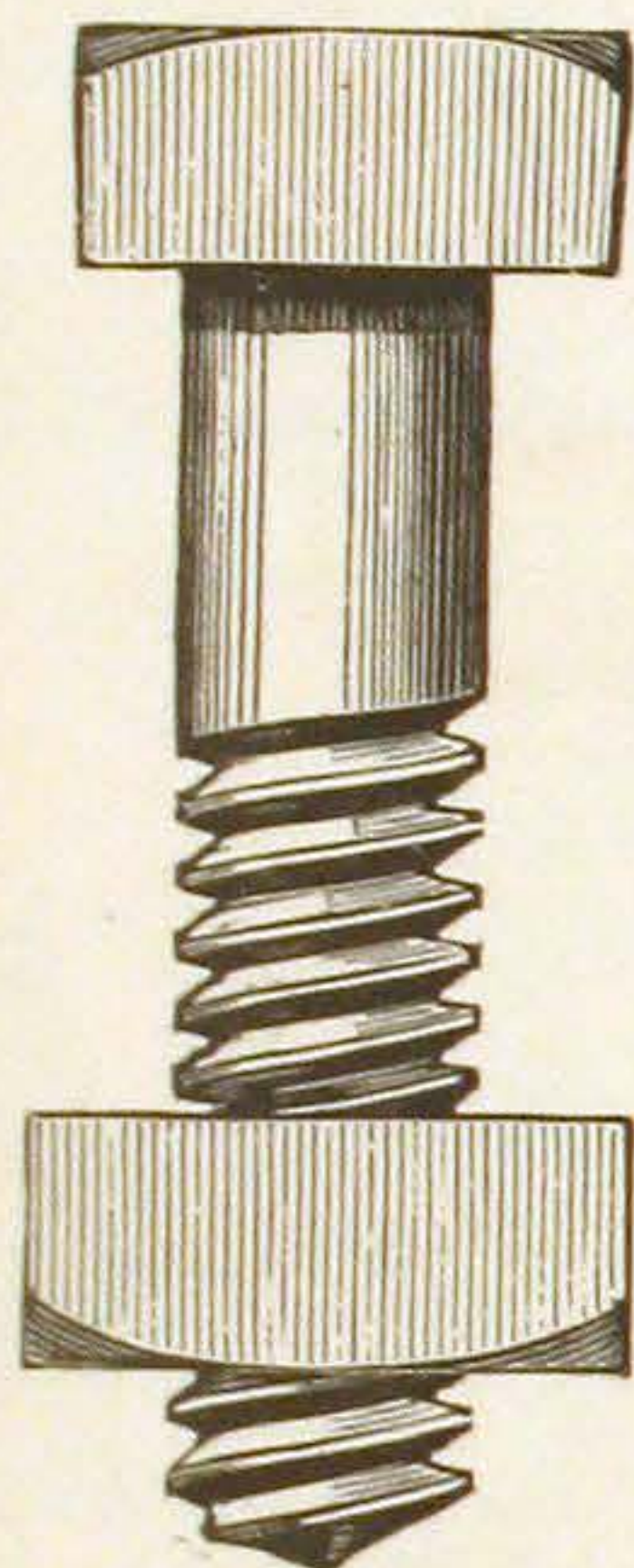


For Melting Metals.



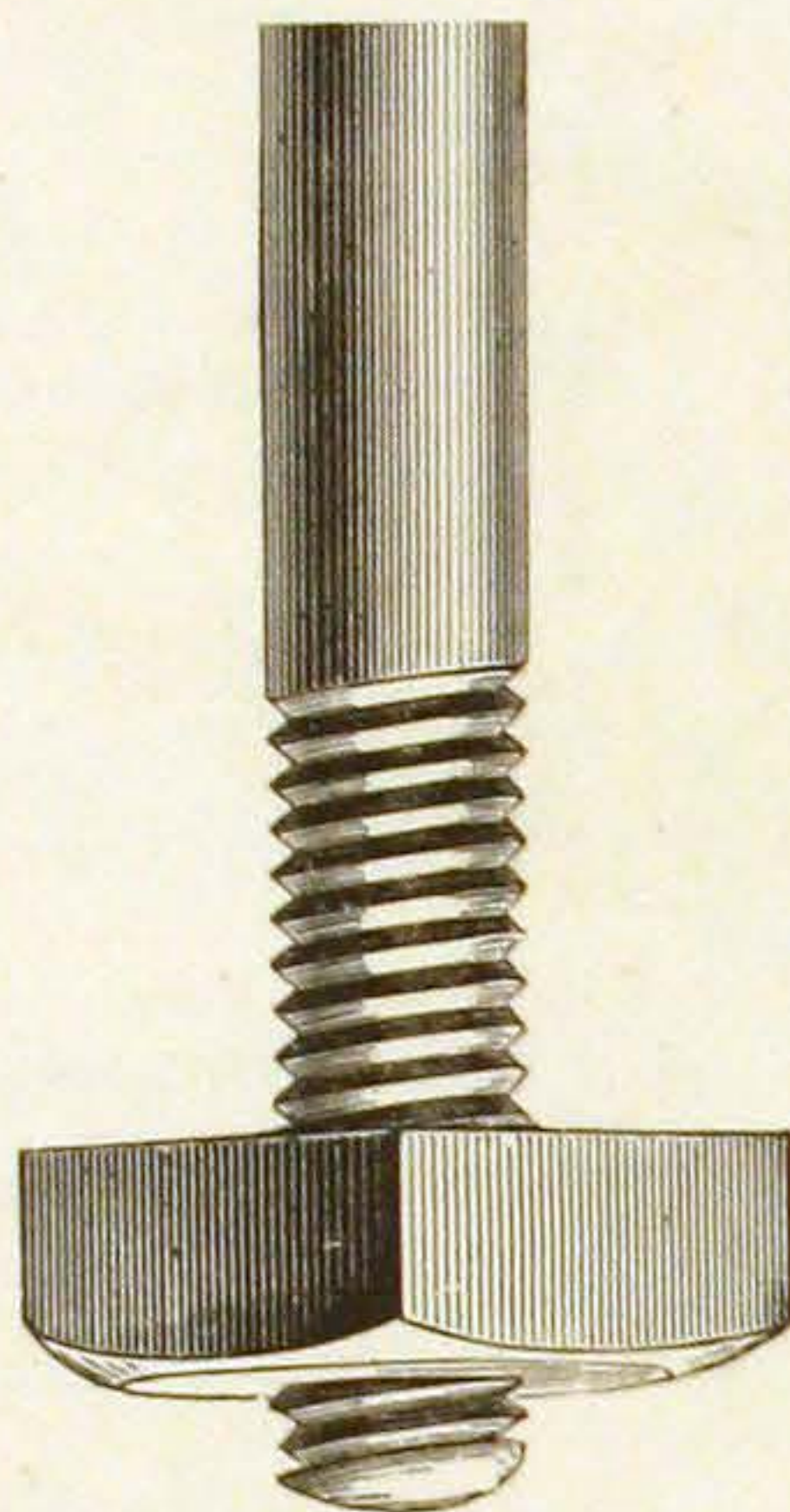
# BOLTS, NUTS, MACHINE SCREWS, &c.

**BOLT.**  
Fig. 398.



Hex. Heads and Nuts.

**BOLT ENDS.**  
Fig. 399.



All Sizes.

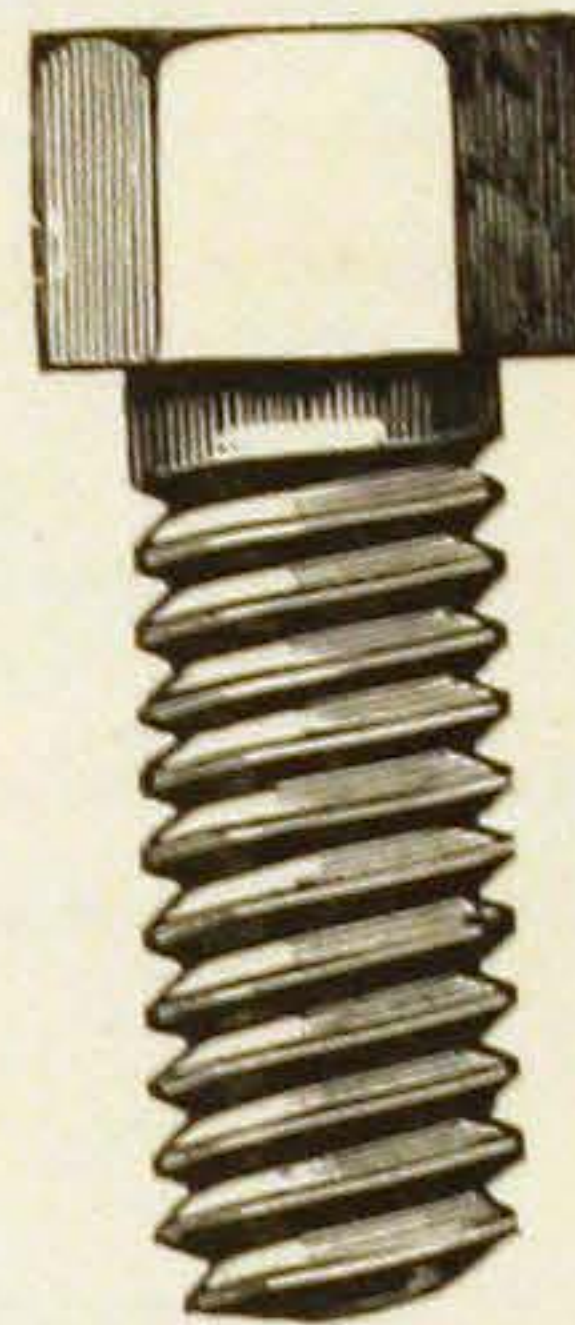
**SET SCREWS OR TAP BOLTS.**

Fig. 400.



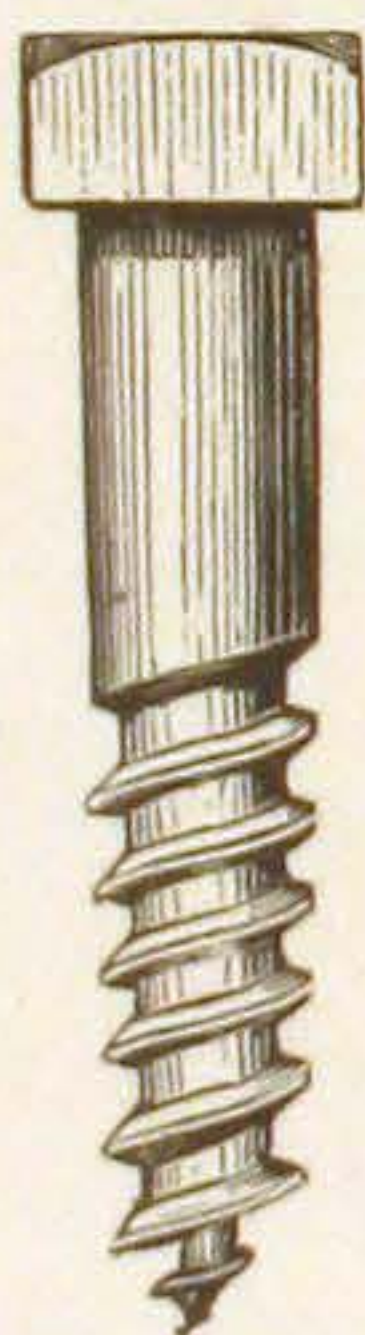
Square Head.

Fig. 401.



Hex. Head.

**LAG SCREW.**  
Fig. 402.

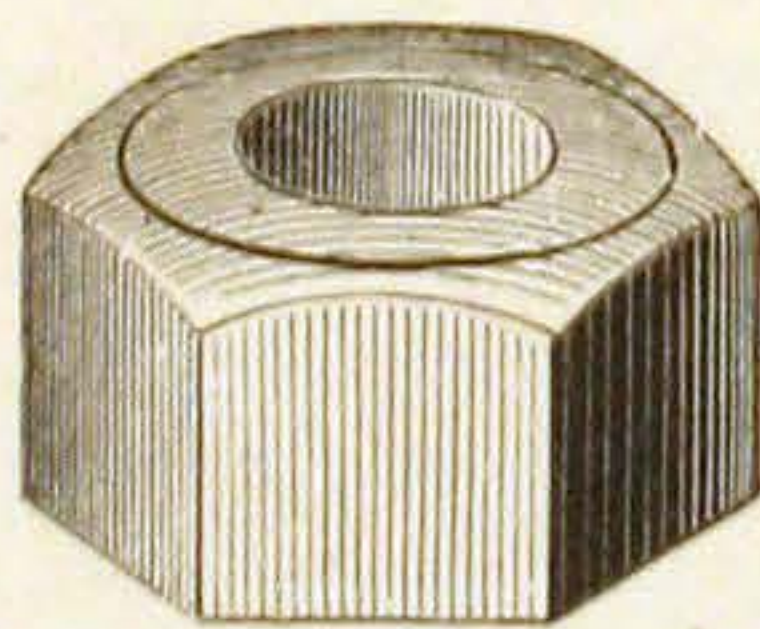


All Sizes.

**NUTS.**  
Fig. 403.



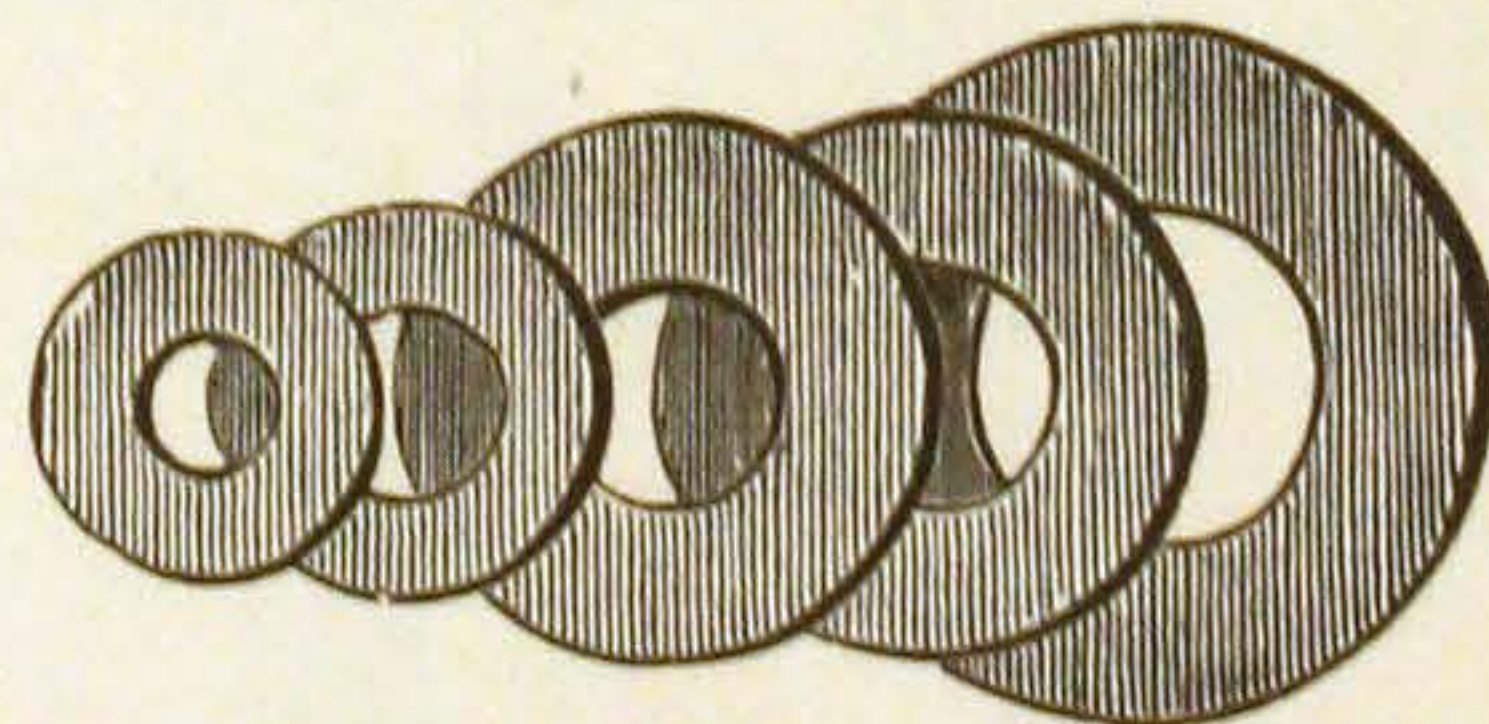
Square.



Hexagon.

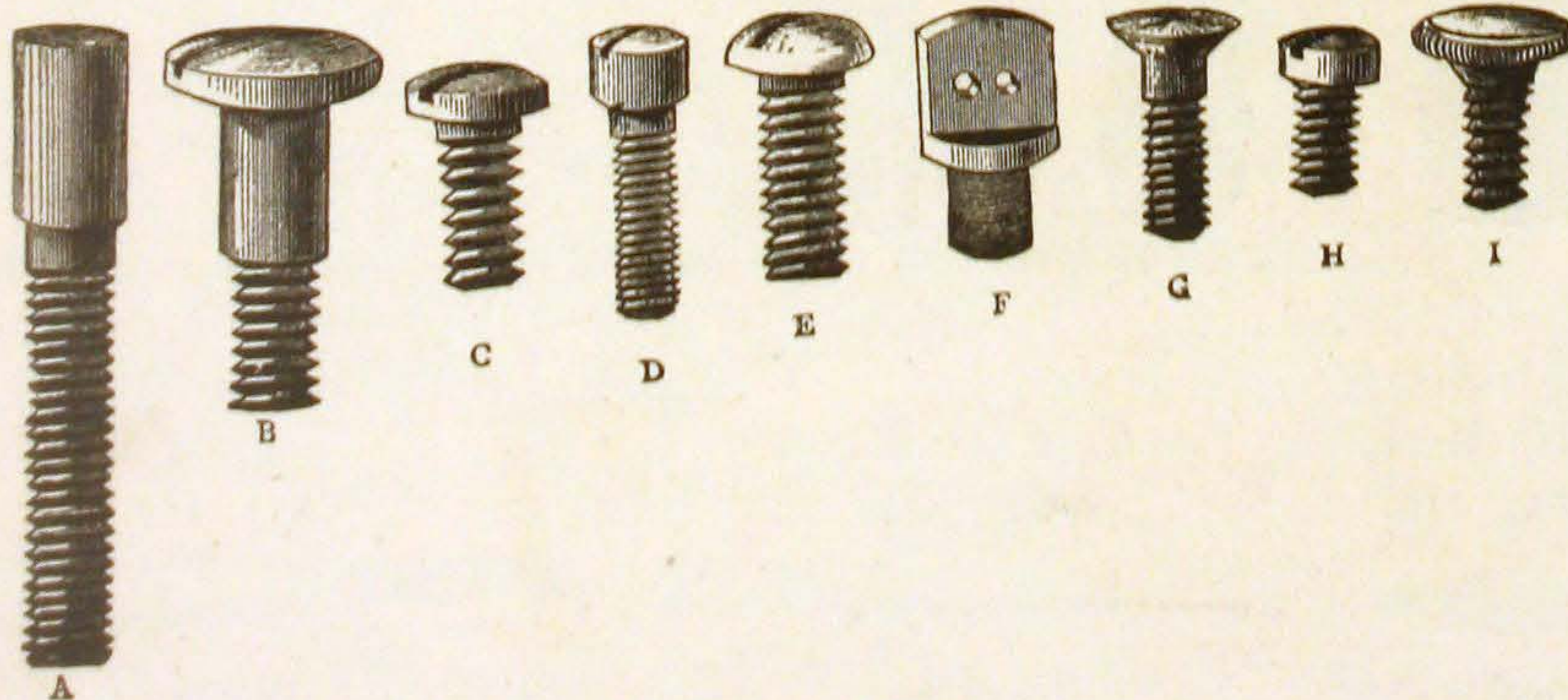
## WASHERS.

Fig. 404.



Wrought or Cast.

**MACHINE SCREWS.**  
Fig. 405.

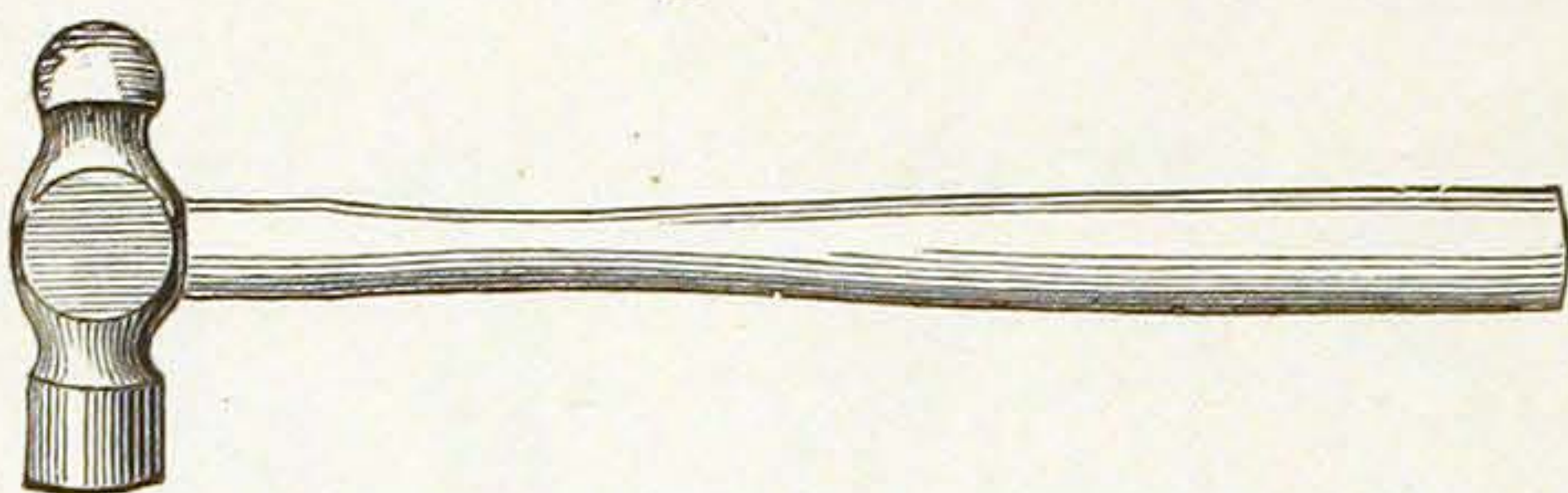


All Kinds and Sizes.



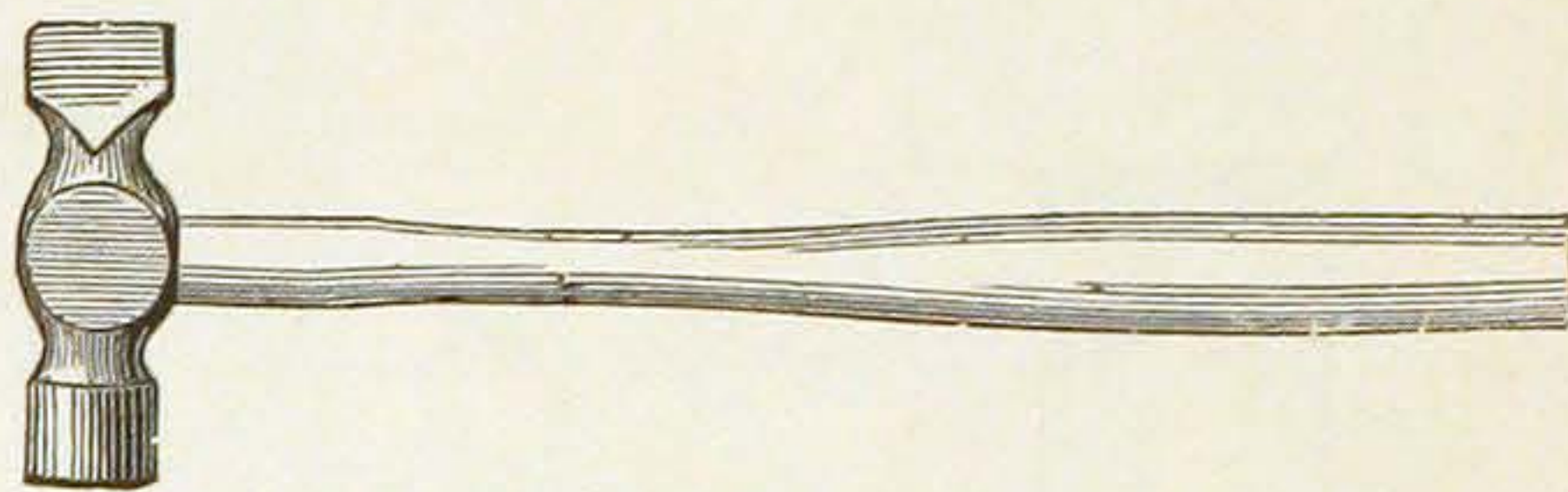
# MACHINISTS' HAMMERS.

Fig. 406.



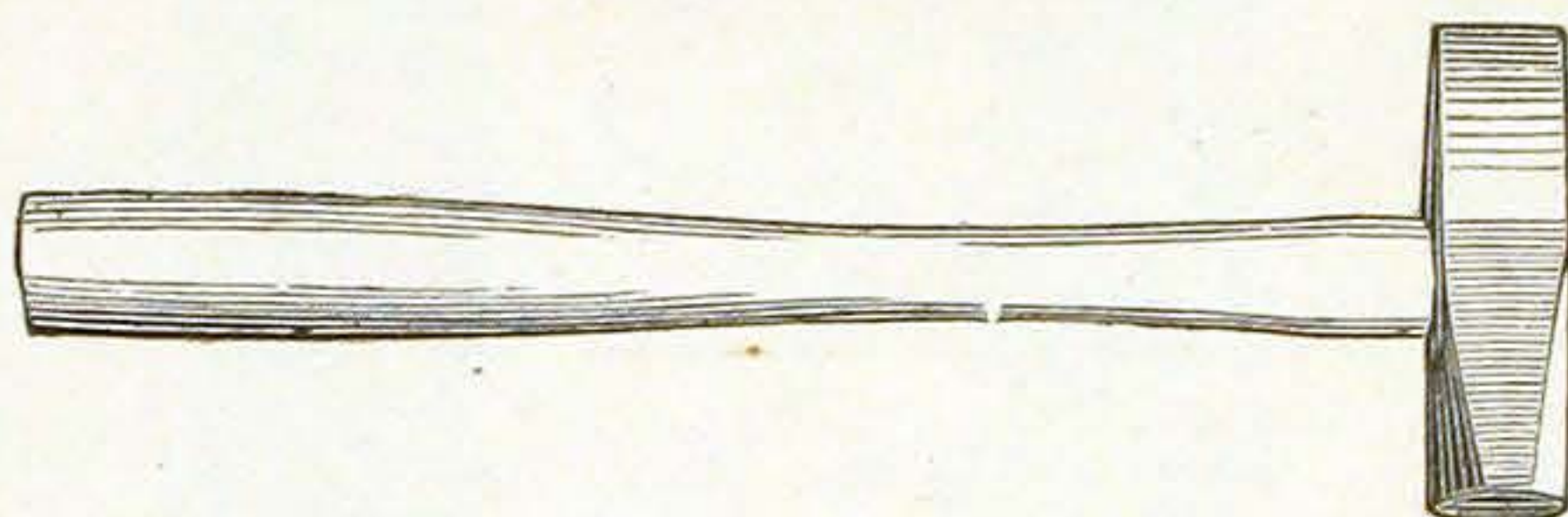
Ball Pein Hammer.

Fig. 407.



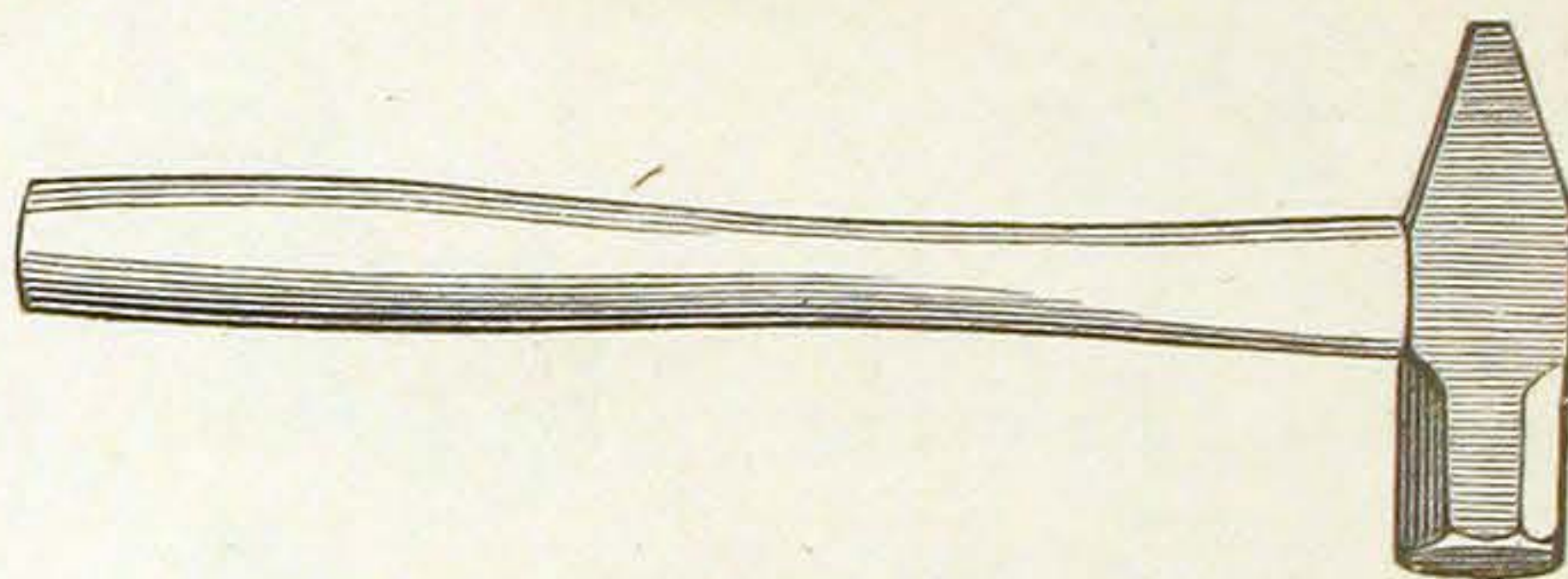
Chipping Hammer.

Fig. 408.



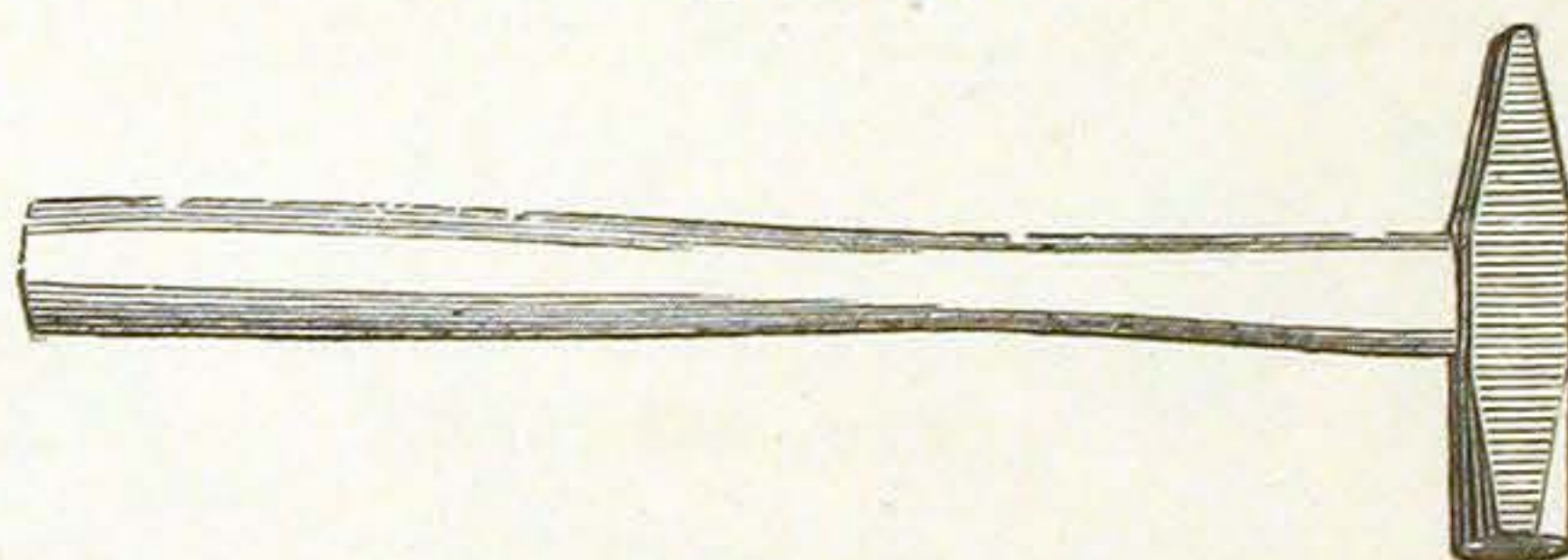
Engineers' Hammer.

Fig. 409.



Blacksmiths' Hand Hammer.

Fig. 410.



Riveting Hammer.

## Machinists' Ext. Hammers. Blacksmiths' Sledges.

Fig. 411.

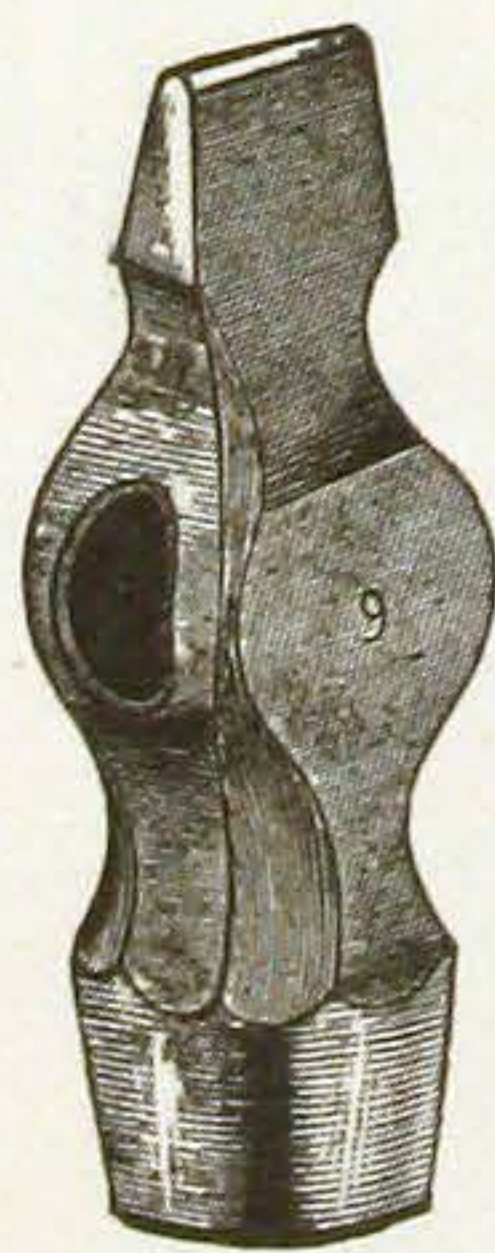


Fig. 412.



Fig. 413.



Straight, Cross or Ball Peins.

Fig. 414.



All Steel, or Steel Face and Pein.

### Splitting Chisel.

Fig. 415.



Handled to Order.

### Crow-Bar.

Fig. 416.



Iron or Steel.

### Blacksmiths' Tongs.

Fig. 417.



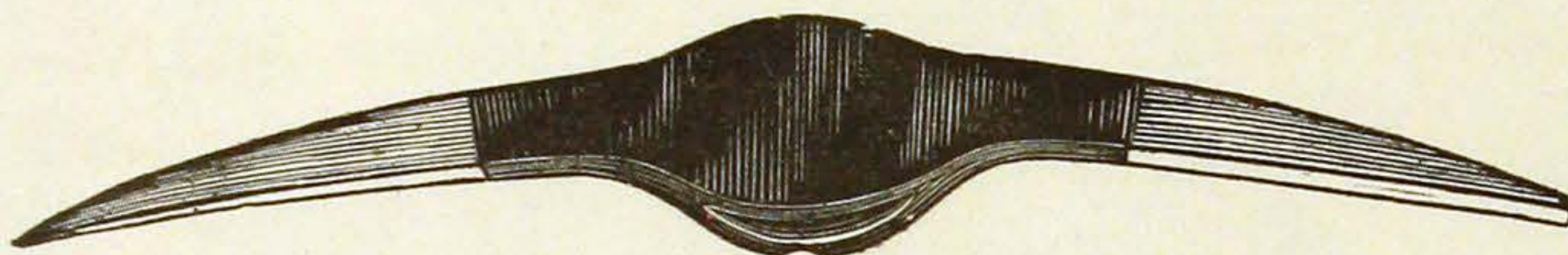
All Sizes.



## PICK, HANDLES AND BELLOWS.

### PICK.

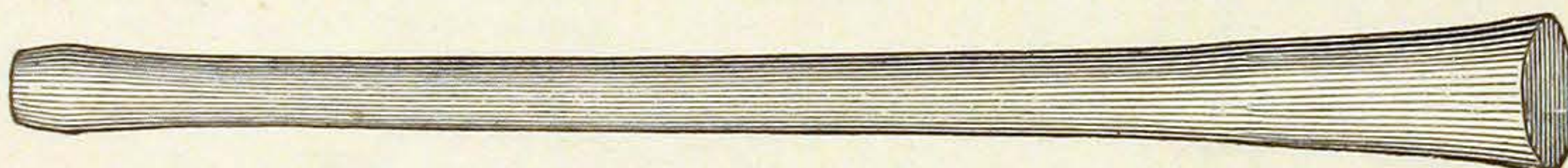
**Fig. 418.**



Common or Patent Picks.

### HANDLES.

**Fig. 419.**



Pick Handle.

**Fig. 420.**



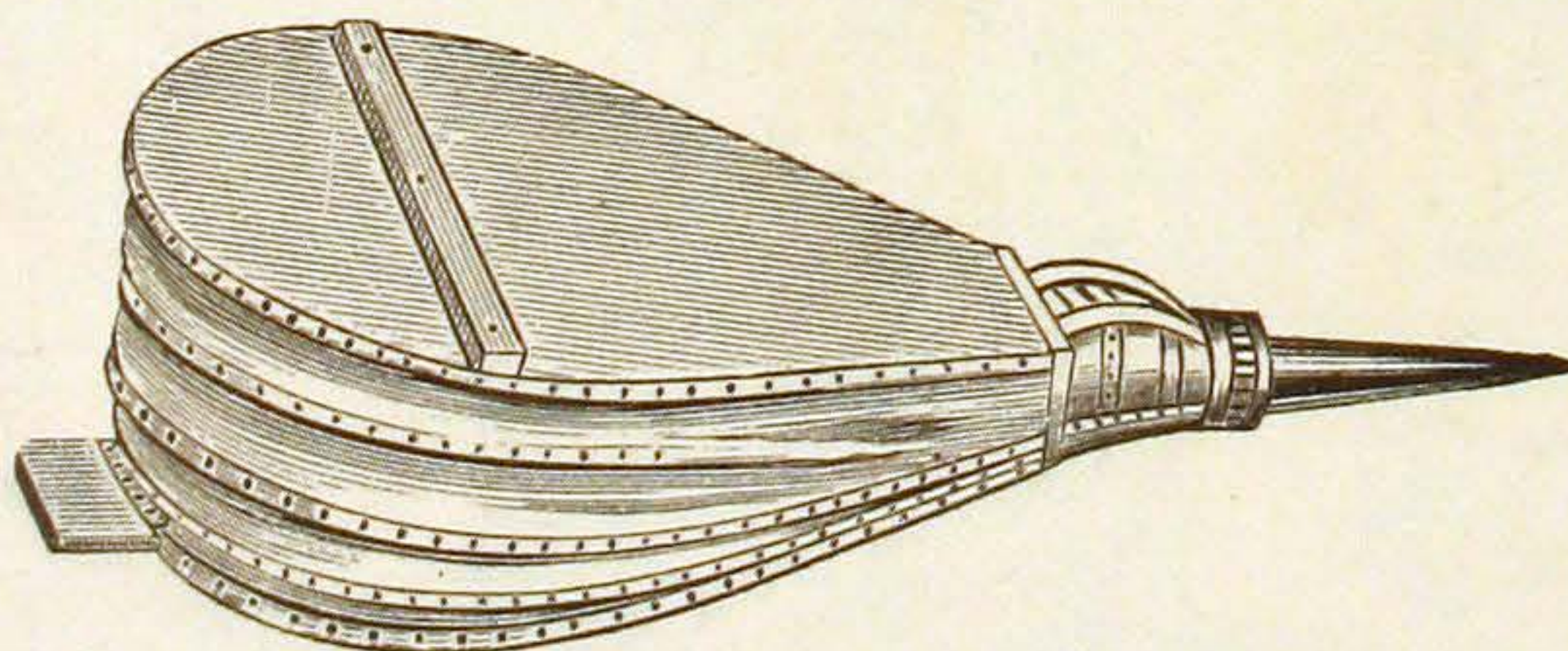
Sledge Handle.

**Fig. 421.**



Machinists' Hammer Handles.

**Fig. 422.**



Blacksmiths' Bellows.

New York or Pittsburgh Styles.

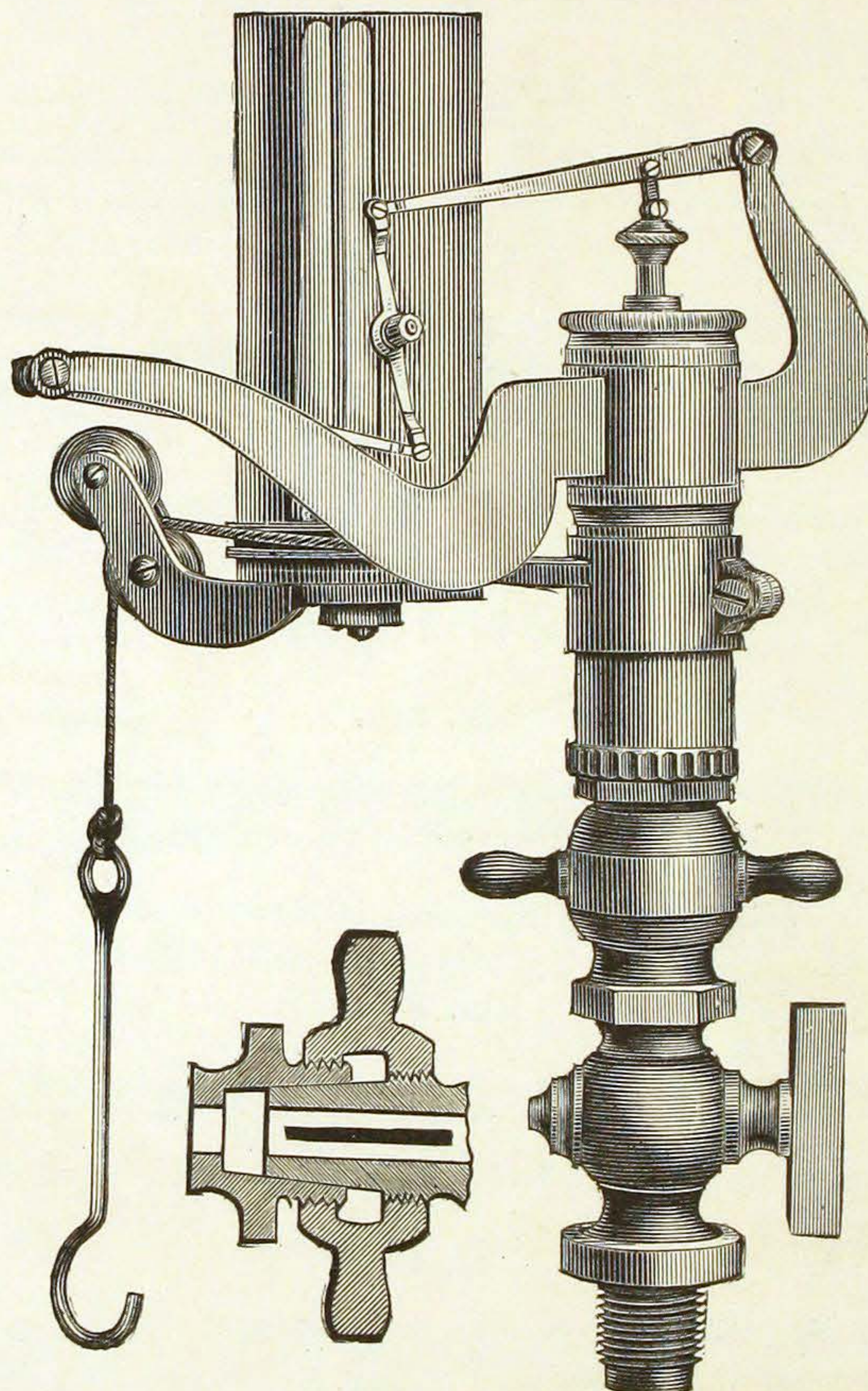
Pattern Letters, all sizes and kinds.



# INDICATORS.

## RICHARD'S PARALLEL MOTION INDICATOR.

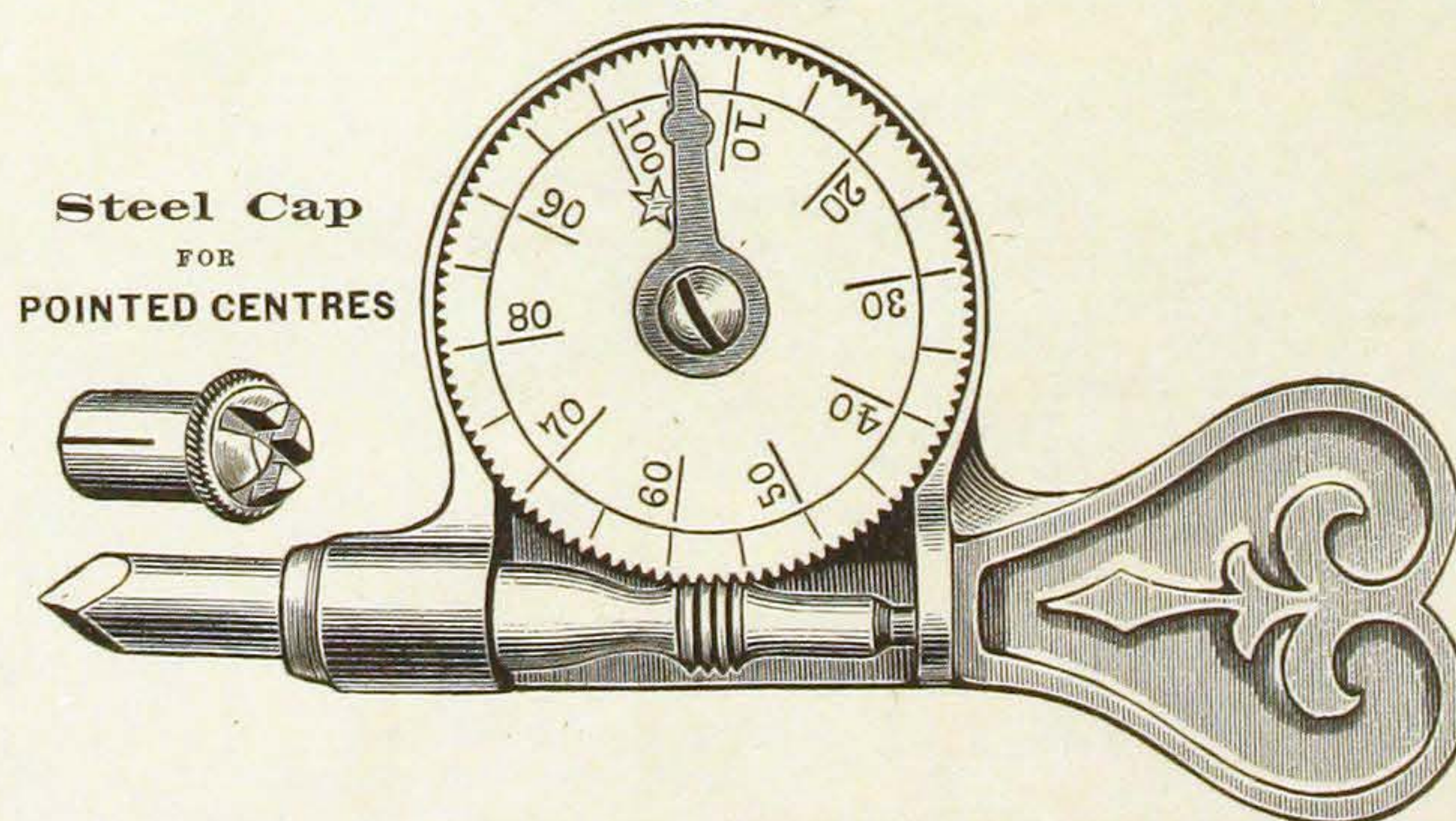
Fig. 423.



The most reliable instrument in use.

## MARSHALL'S SPEED INDICATOR.

Fig. 424.

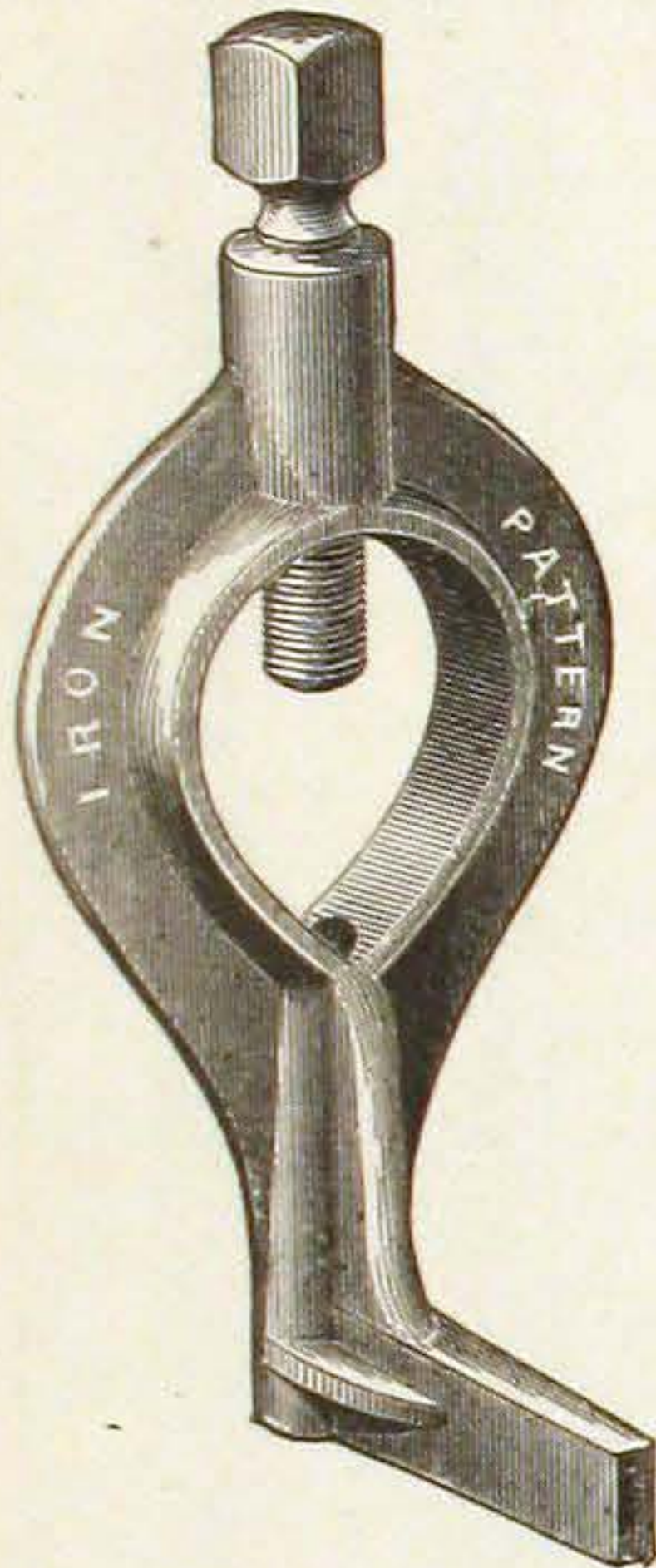


Full Size.  
Simple and cheap.



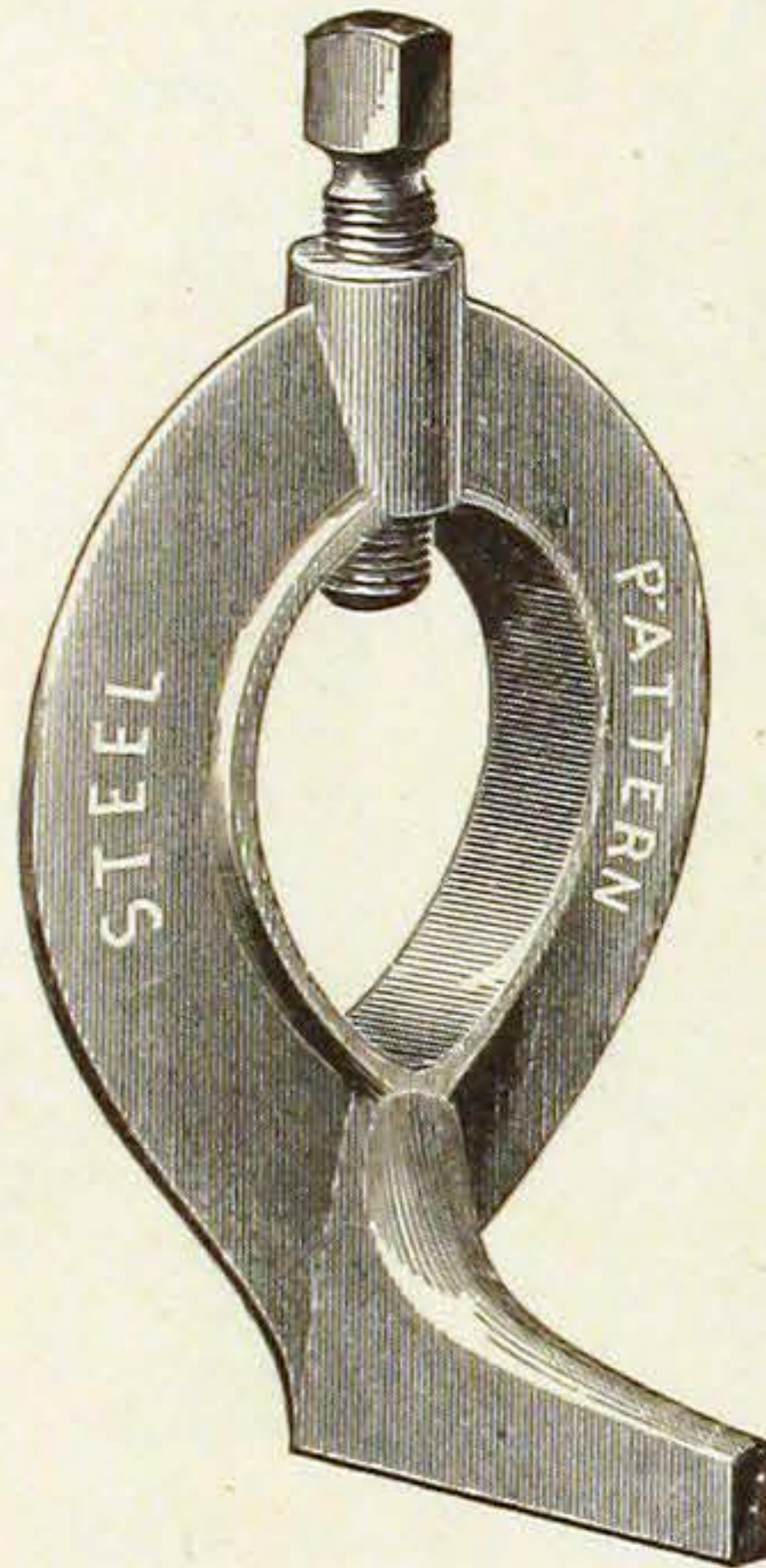
LE COUNT'S LATHE DOGS, CLAMPS, &c.  
LATHE DOGS. MACHINISTS' CLAMPS.

Fig. 425.



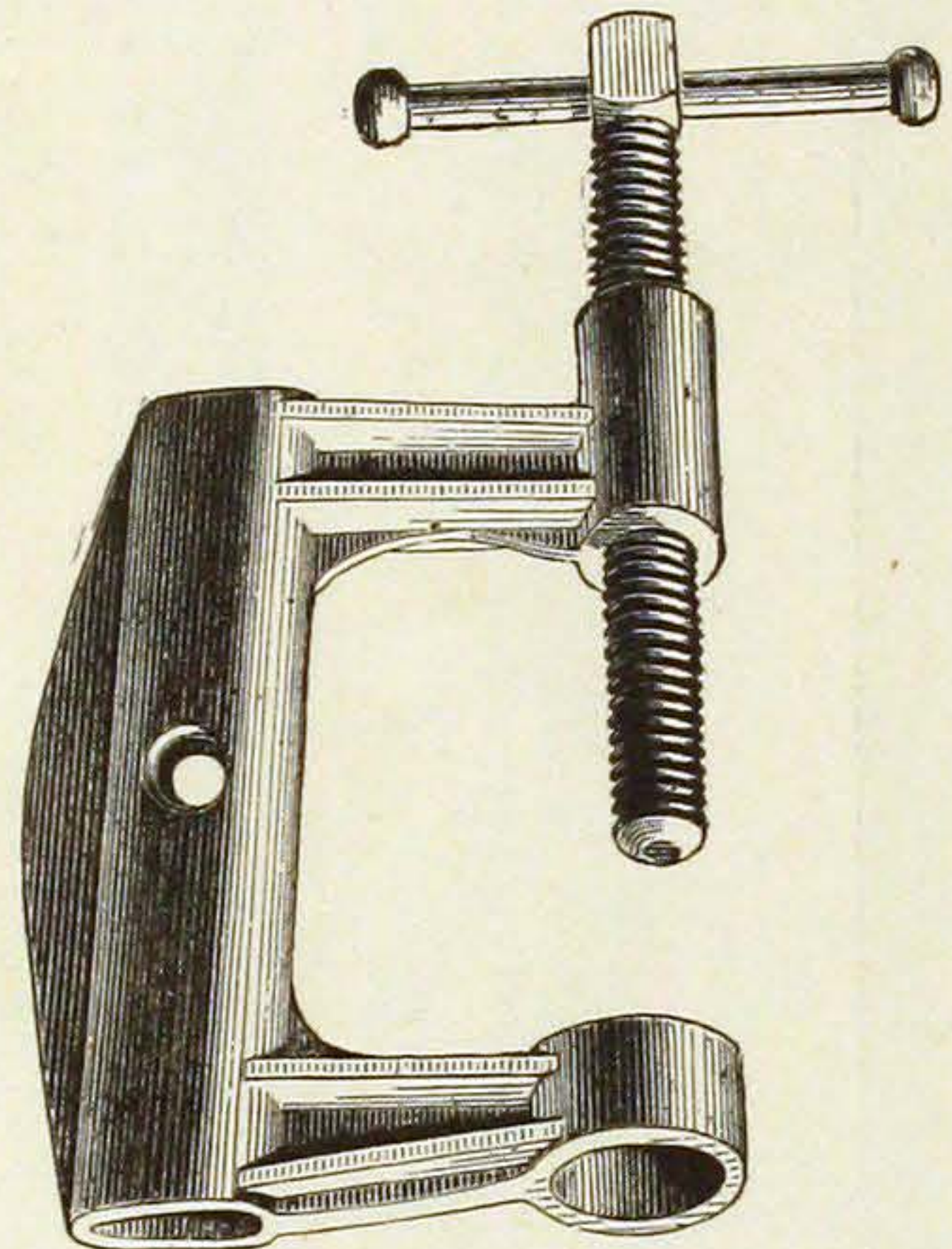
Malleable Iron.

Fig. 426.



Steel.

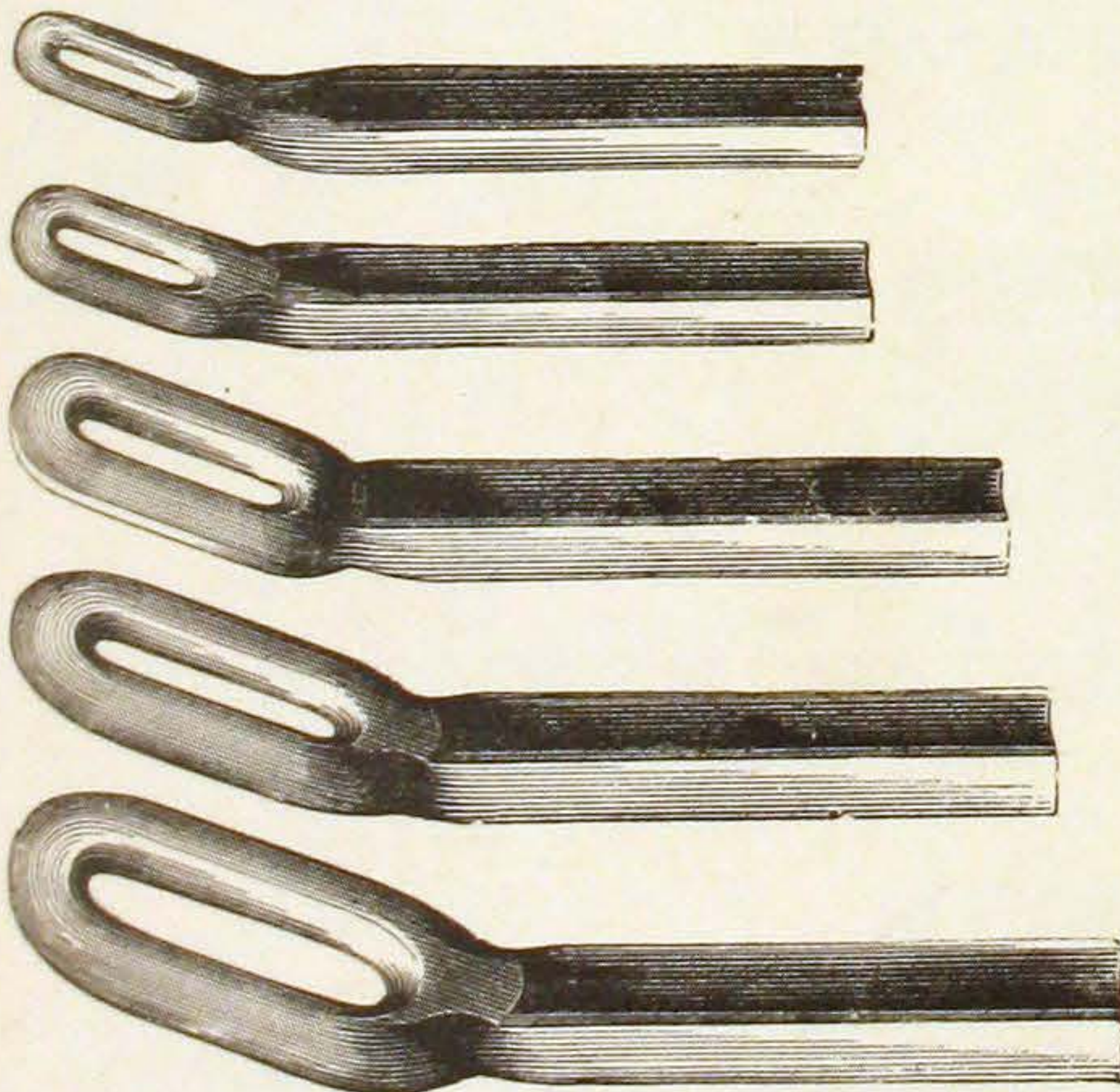
Fig. 427.



Malleable Iron.

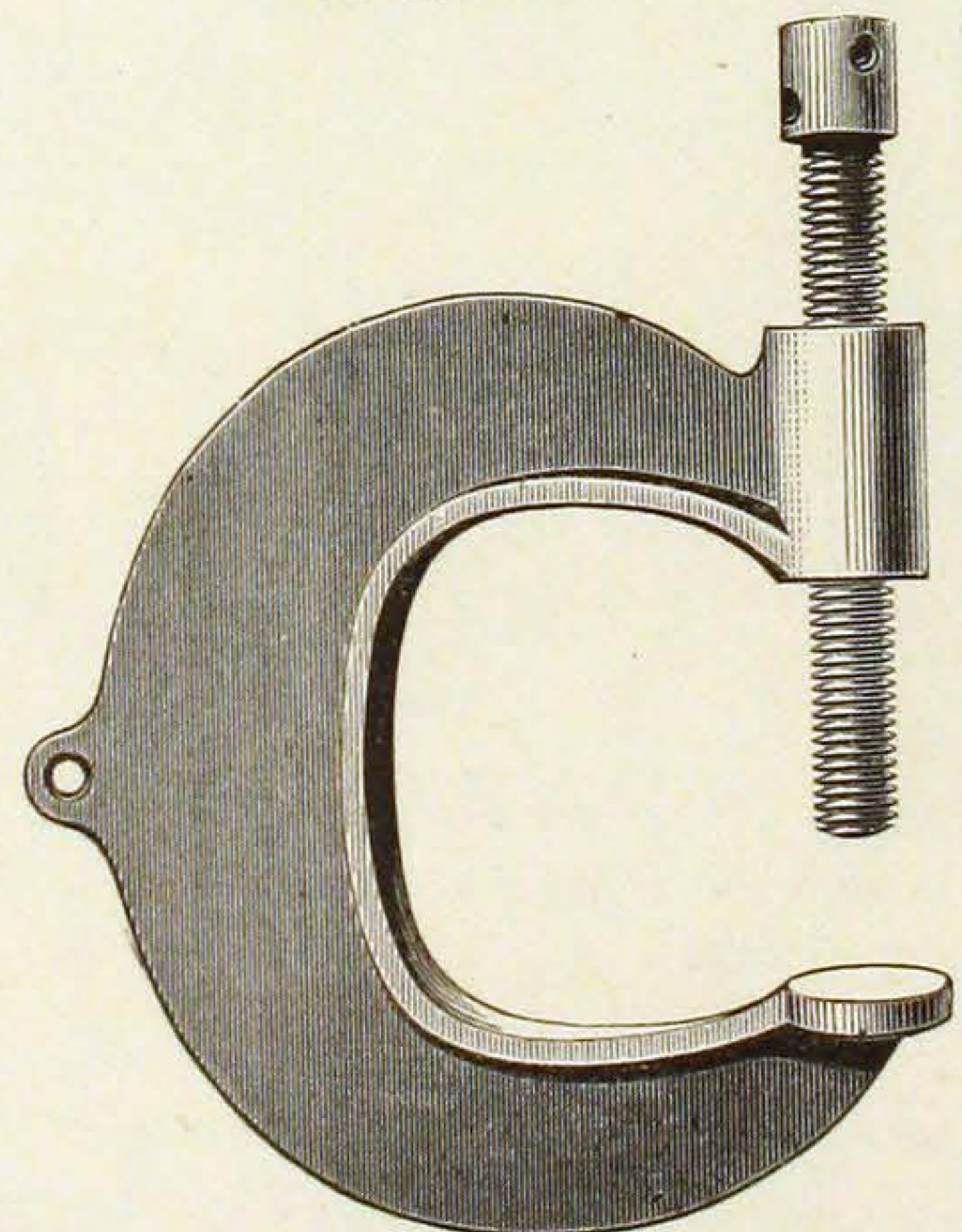
Steel Chuck Drill Holders.

Fig. 429.



Five Sizes, taking from  $\frac{3}{8}$  to 2 in. Drills.

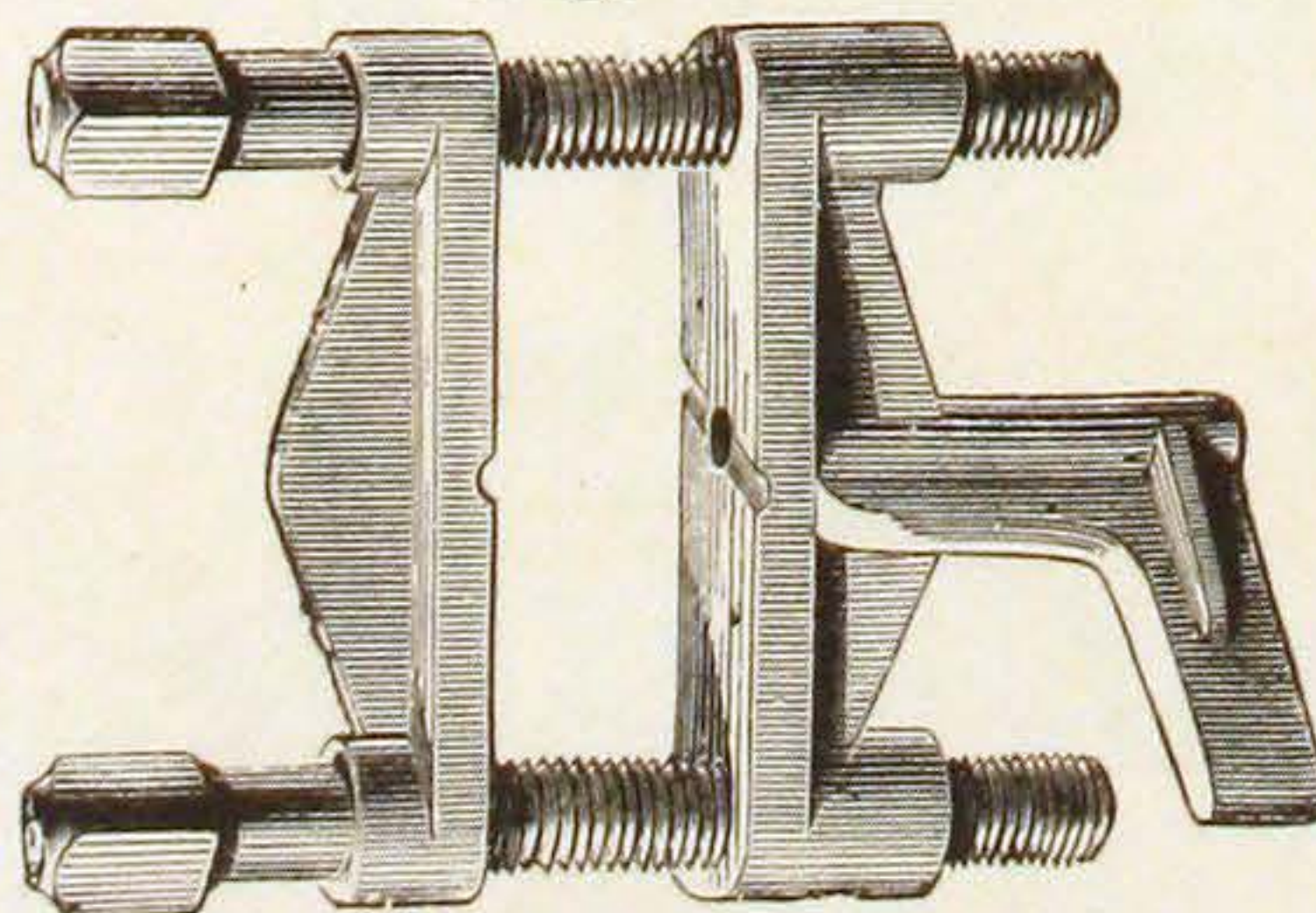
Fig. 428.



Steel.

PATENT CLAMP DOG.

Fig. 430.



Four Sizes.

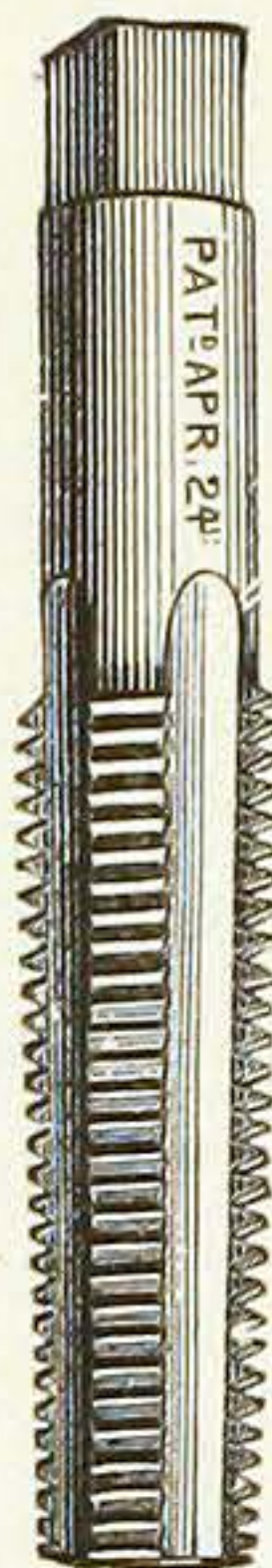


## NEW YORK TAP AND DIE CO'S MAKE.

Fig. 431.

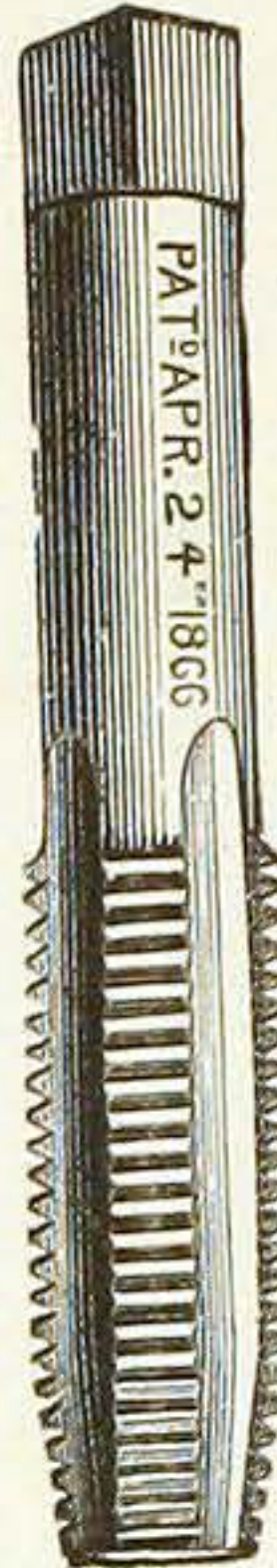
Machine or Nut Tap  
Long Shank.

Fig. 432.



Taper Tap.

Fig. 433.



Plug Tap.

Fig. 434.

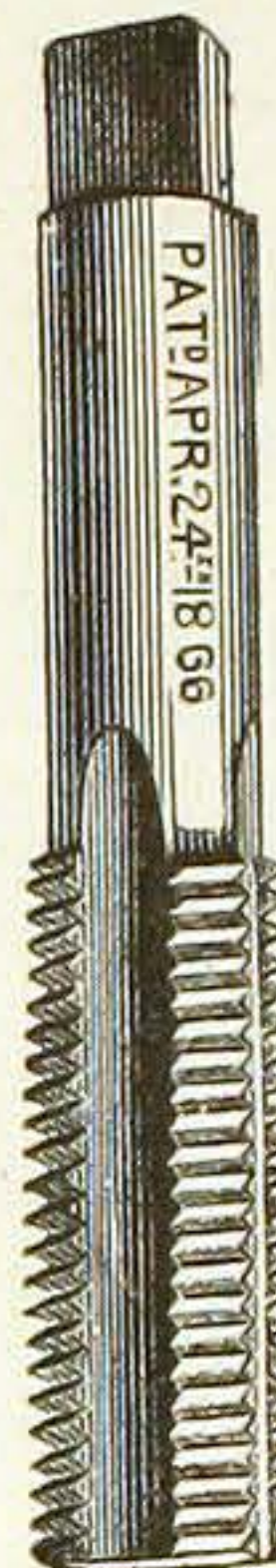
Bottoming  
Tap.

Fig. 435.

Blacksmiths'  
Tap.

Fig. 436.

Taps for  
Machine Screws.

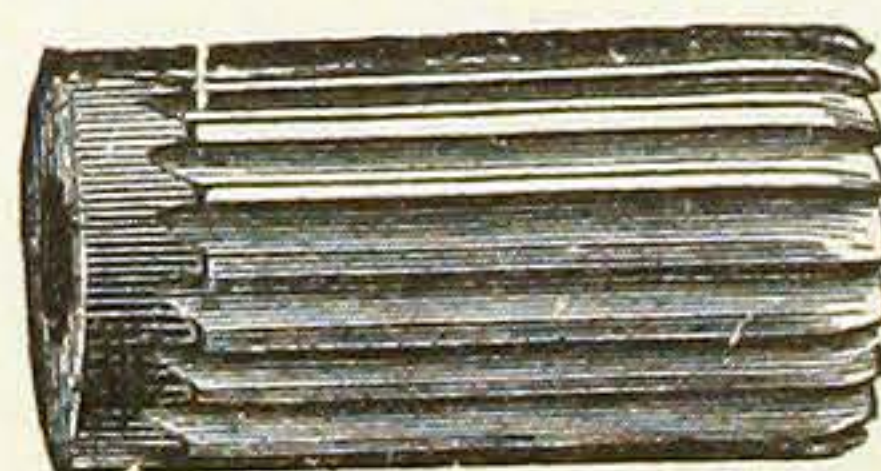
Fig. 437.



Solid Reamer.

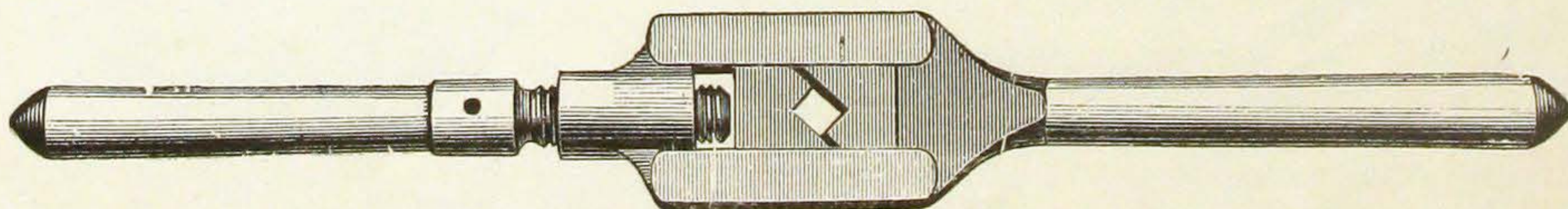
## SHELL REAMER.

Fig. 438.



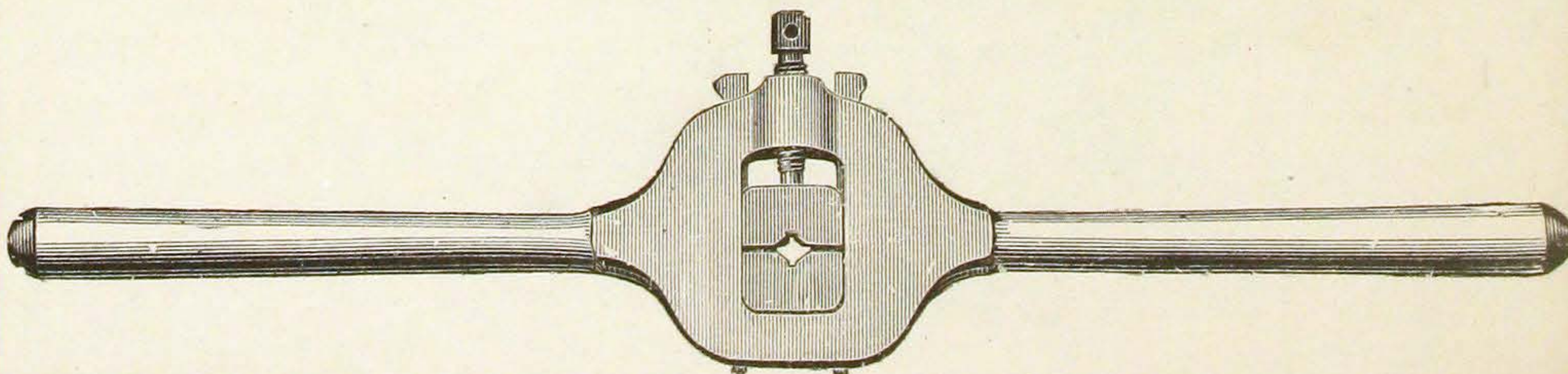
## PAT. ADJUSTABLE TAP WRENCH.

Fig. 439.



## SCREW PLATES AND DIES.

Fig. 440.



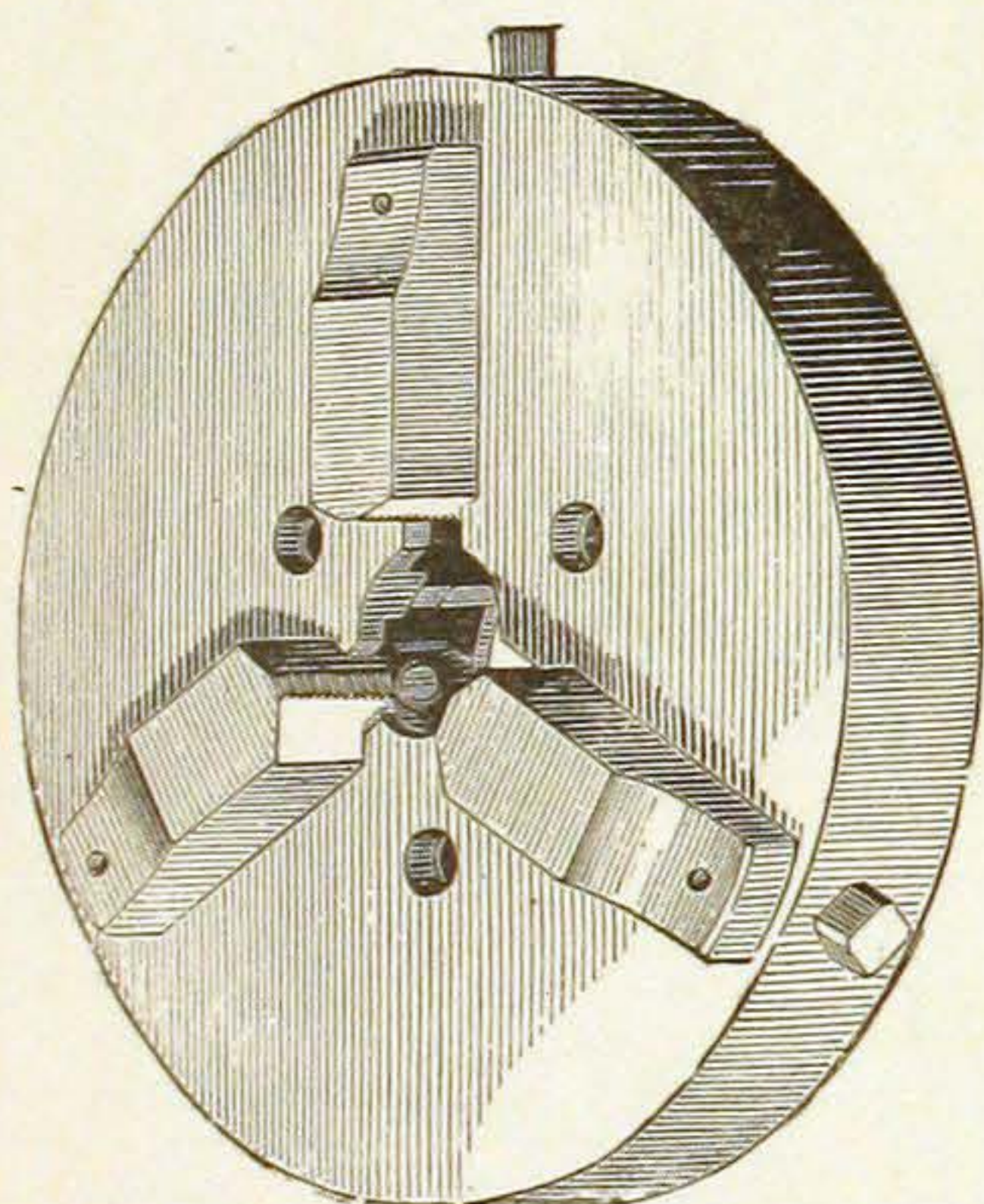


# LATHE CHUCKS.

HORTON'S PAT.

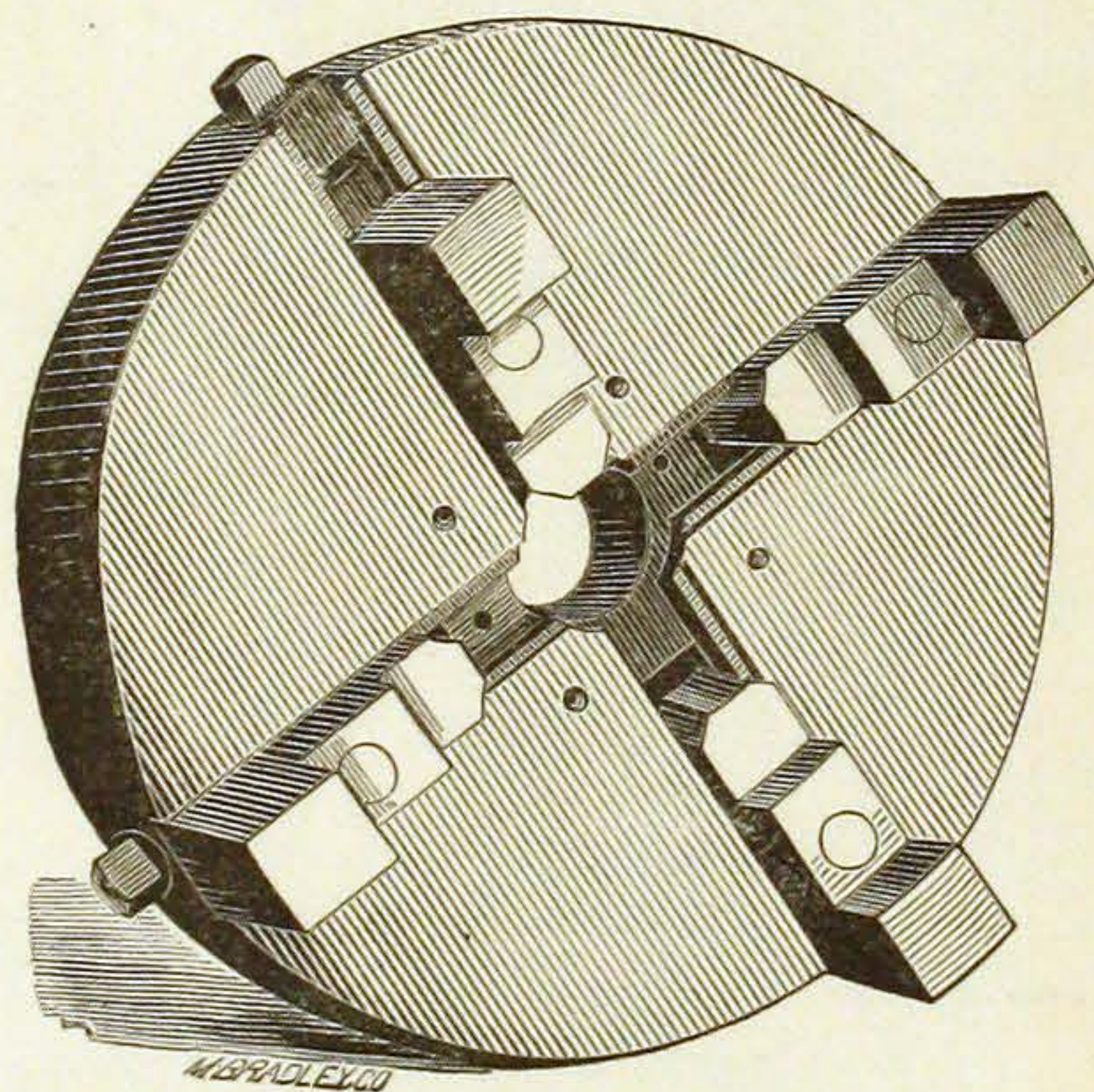
HENRY WHITON'S PAT.

**Fig. 441.**



3 and 4 Jaws, from 4 to 36 inch.

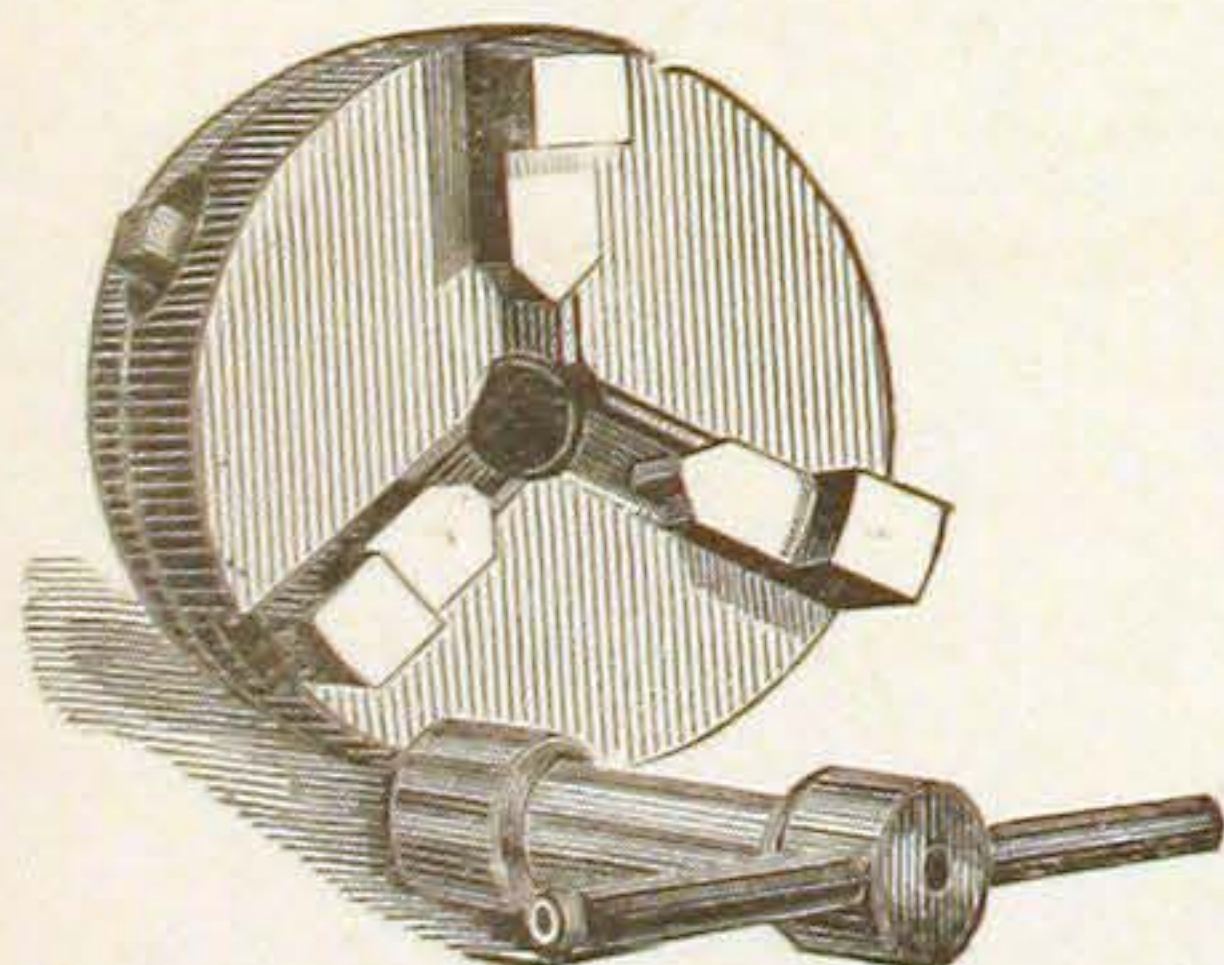
**Fig. 442.**



Independent Screw Chuck.

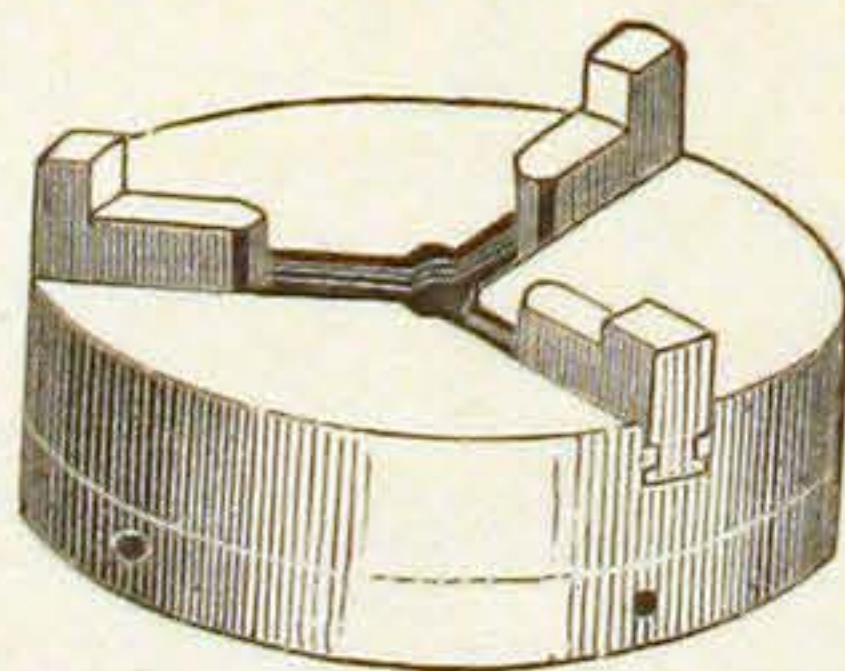
HENRY WHITON'S PATENT.

**Fig. 443.**



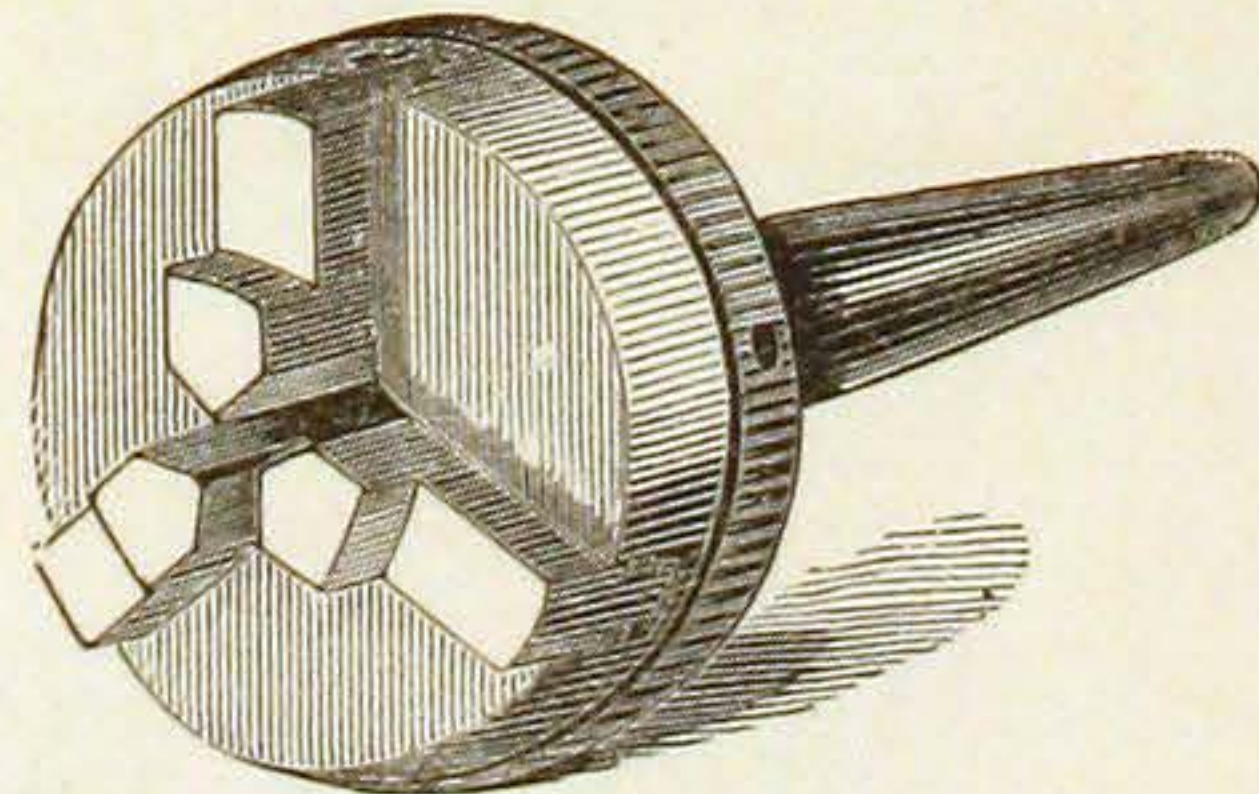
With Gear and Pinion.

**Fig. 444.**



Scroll Chuck.

**Fig. 445.**

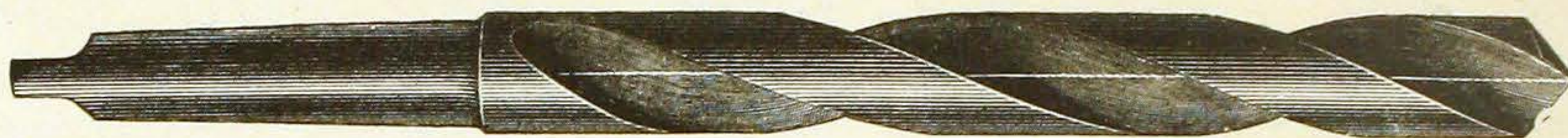


For holding Drills.

Cushman's Chucks of all kinds.



# TWIST DRILLS, DRILL CHUCKS, &c. MORSE'S PATENT.

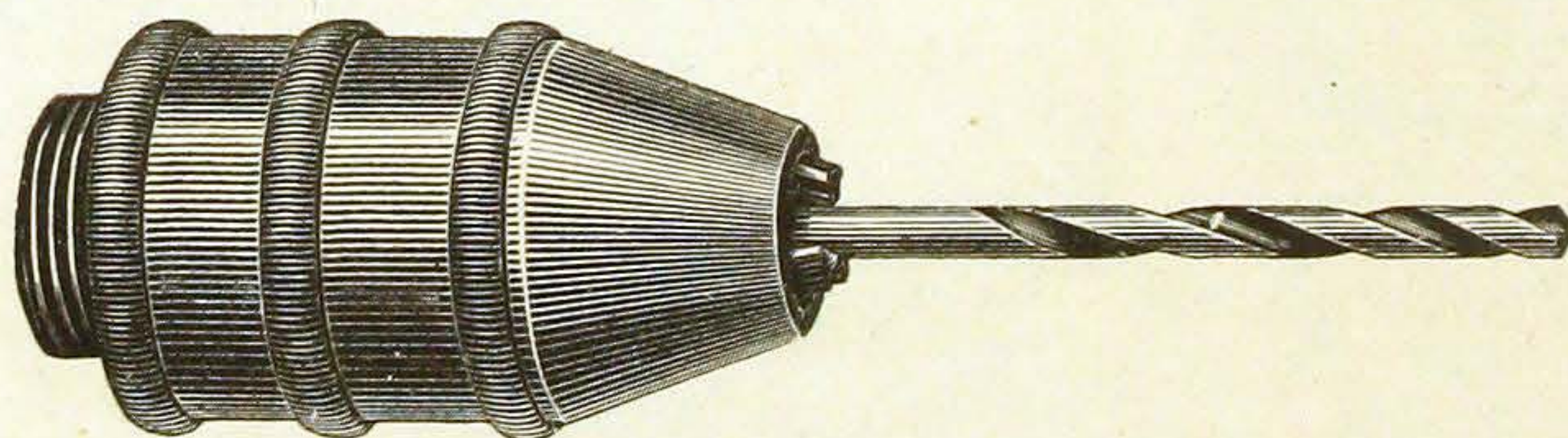
**Fig. 446.**

Taper or Straight Shank.

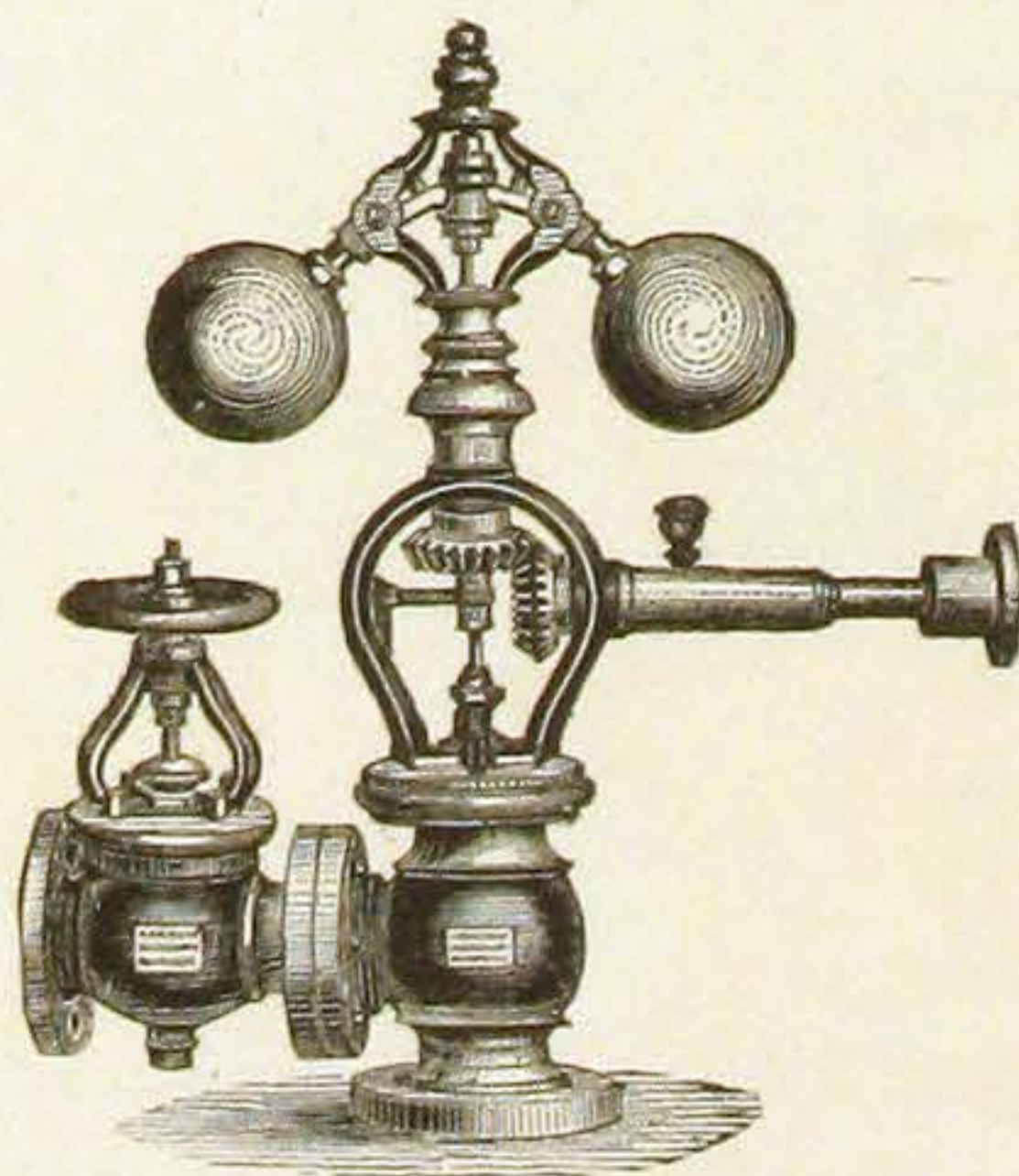
**Fig. 447.**

Bit Stock Drills.

## BEACH'S PATENT DRILL CHUCK.

**Fig. 448.**Five Sizes,  $\frac{1}{8}$  to  $\frac{5}{8}$  inch.

## JUDSON'S PAT. GOVERNOR.

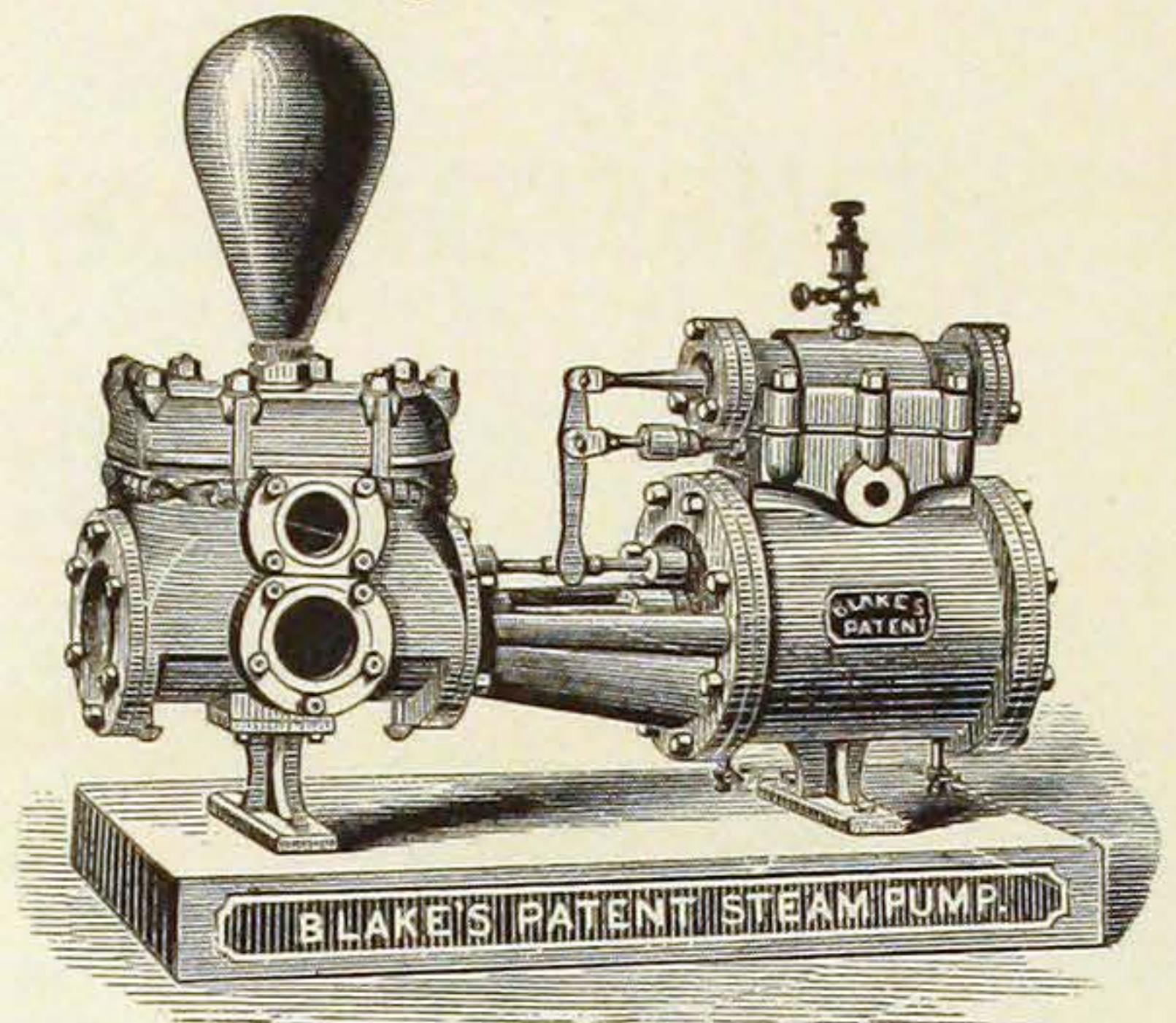
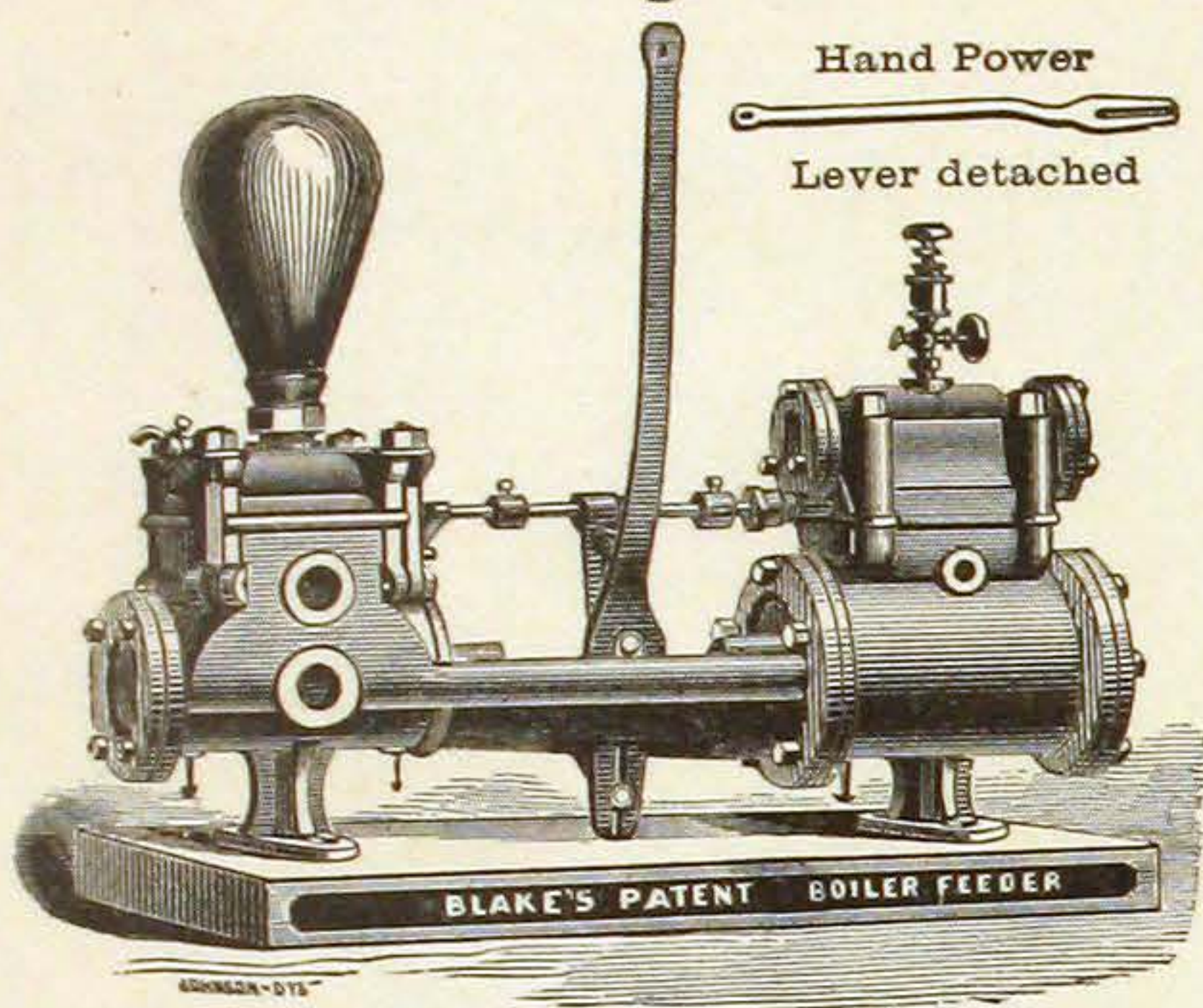
**Fig. 449.**Sizes from  $\frac{3}{4}$  to 9 inch.



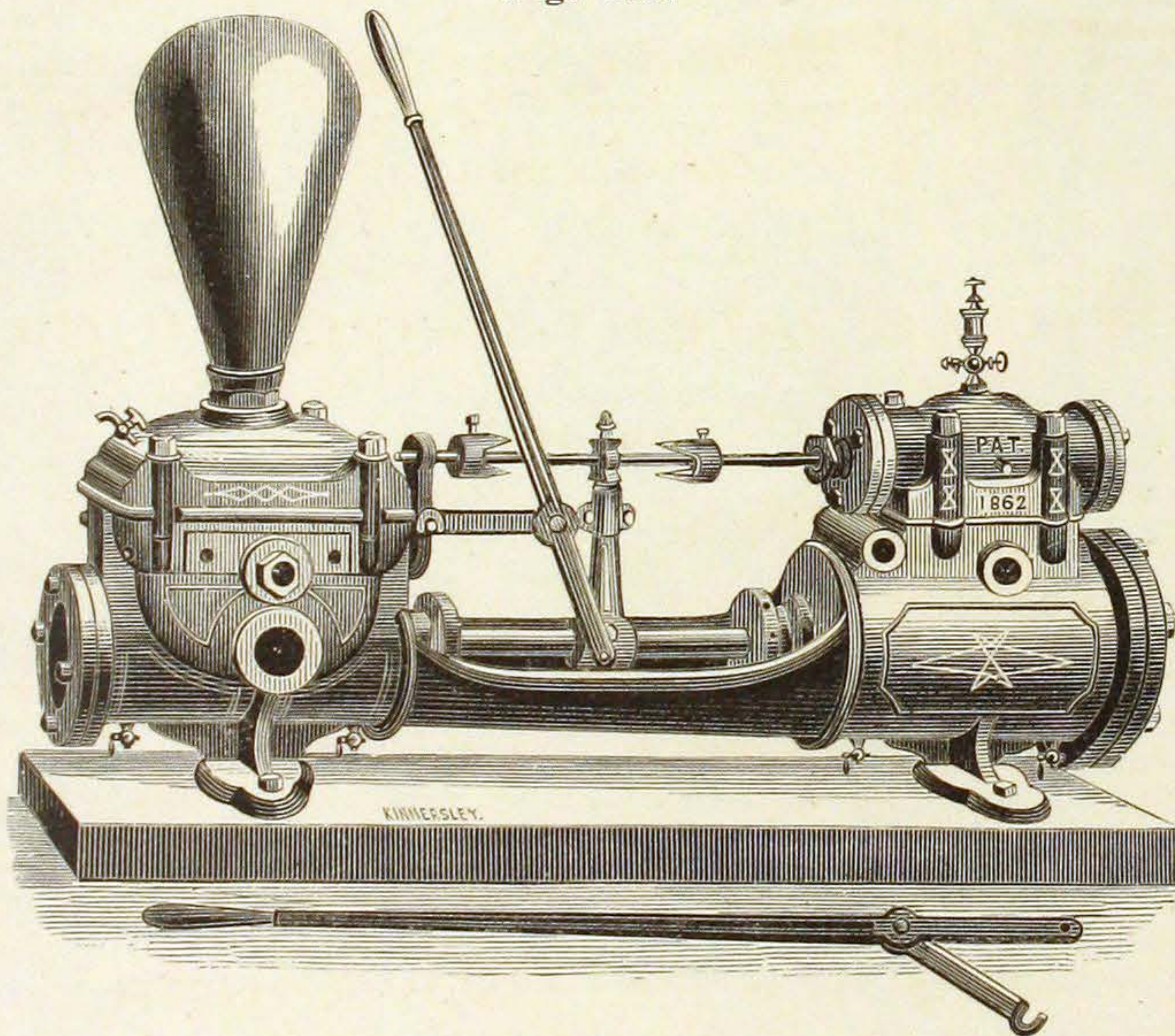
# STEAM PUMPS. BLAKE'S PATENT PUMPS.

Fig. 450.

Fig. 451.



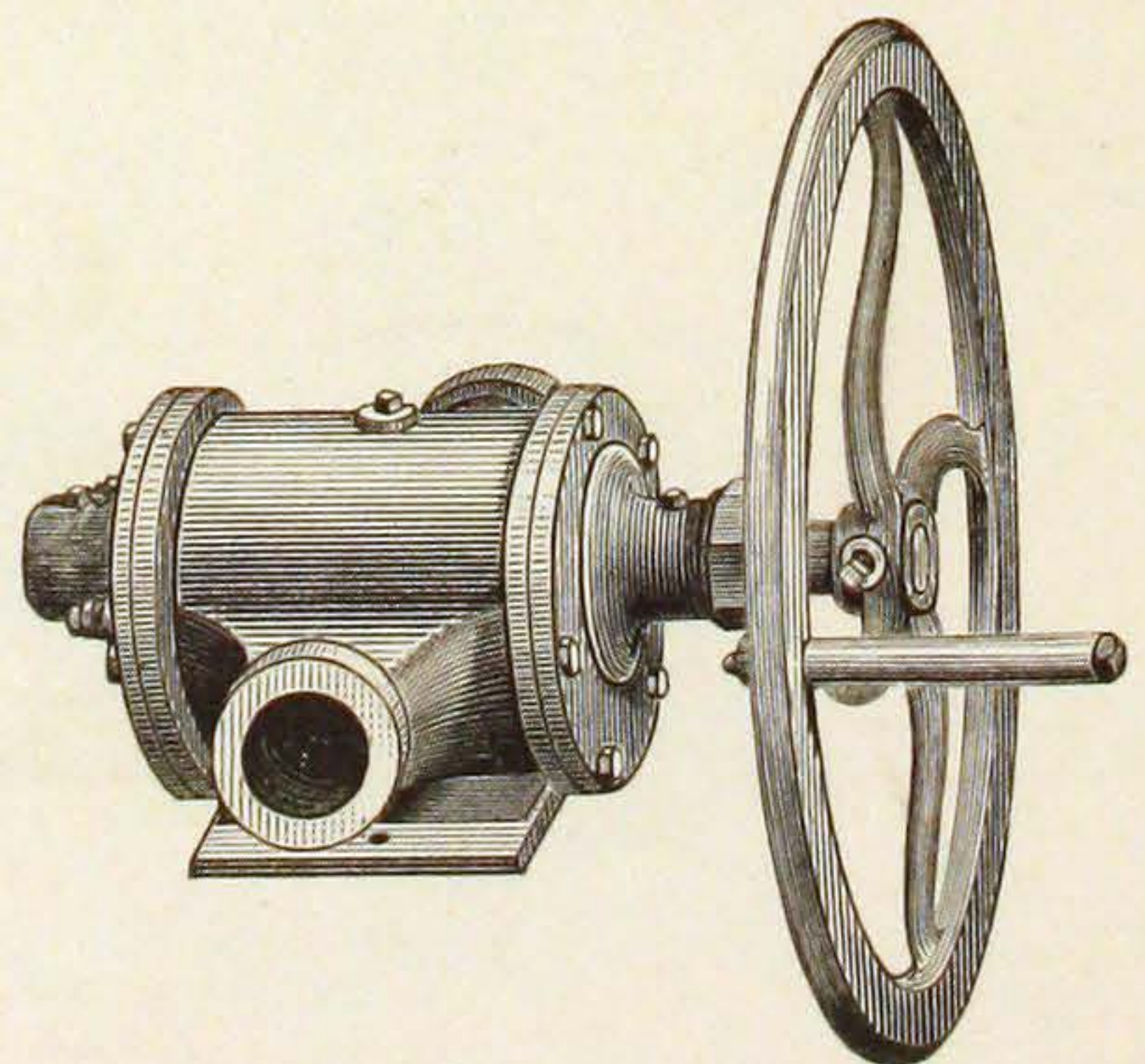
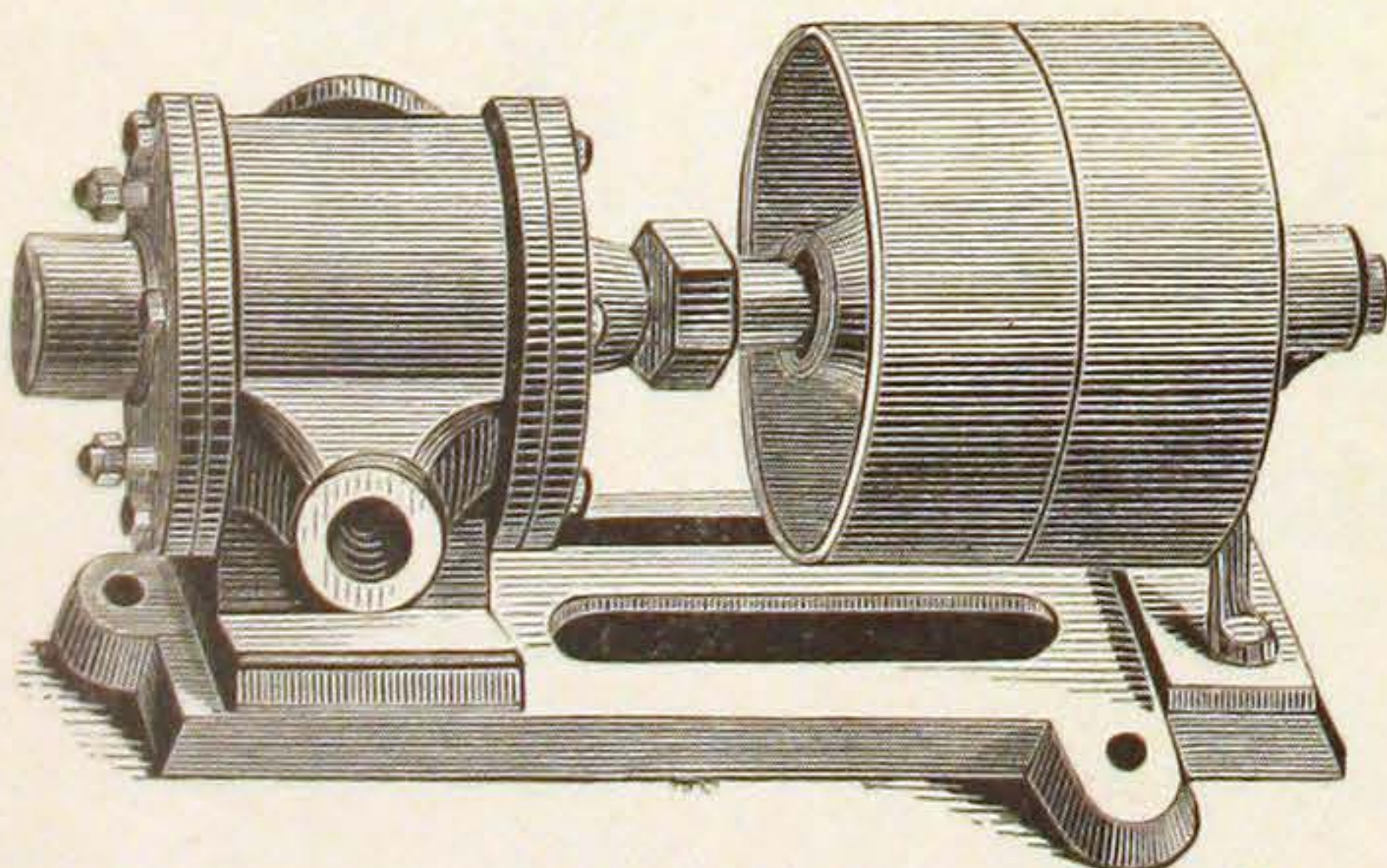
## KNOWLES' PATENT PUMPS. Fig. 452.



## FOSTER'S EXCELSIOR ROTARY PUMP.

Fig. 453½.

Fig. 453.



See Descriptive Circulars and Price Lists.



# SYPHON PUMPS AND DAMPER REGULATOR.

## LANSDPELL'S PATENT.

Fig. 454.

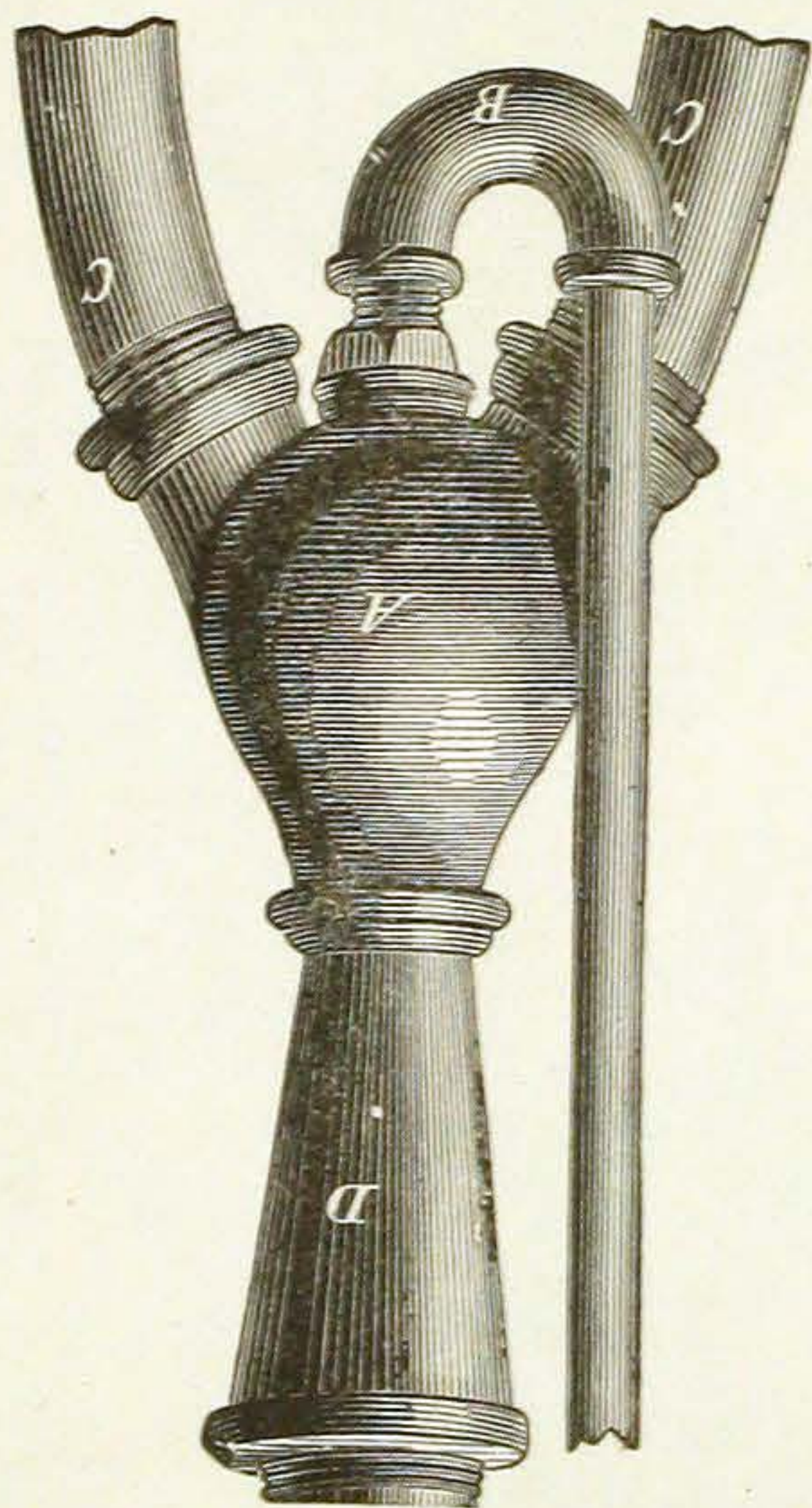
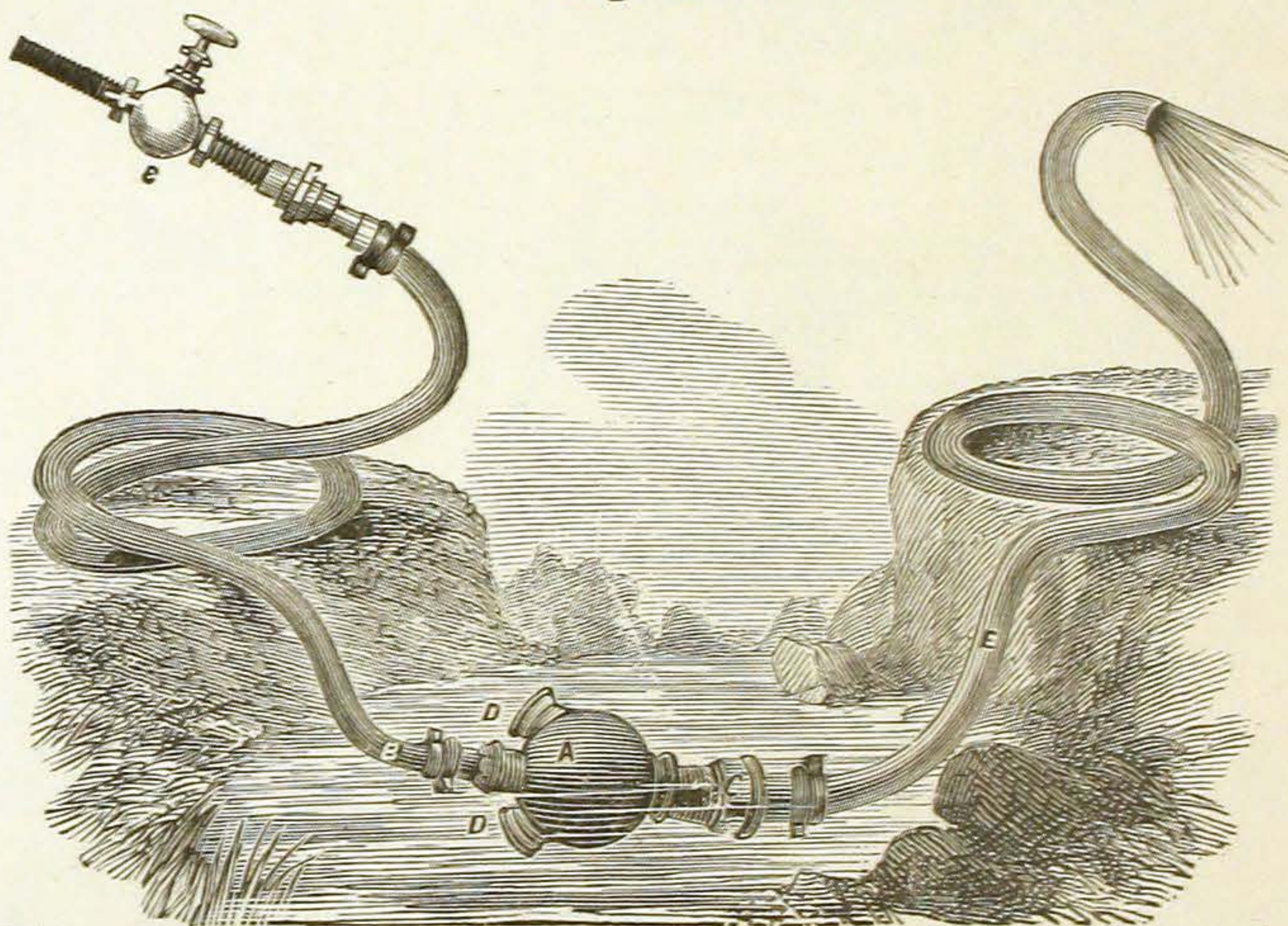


Fig. 455.

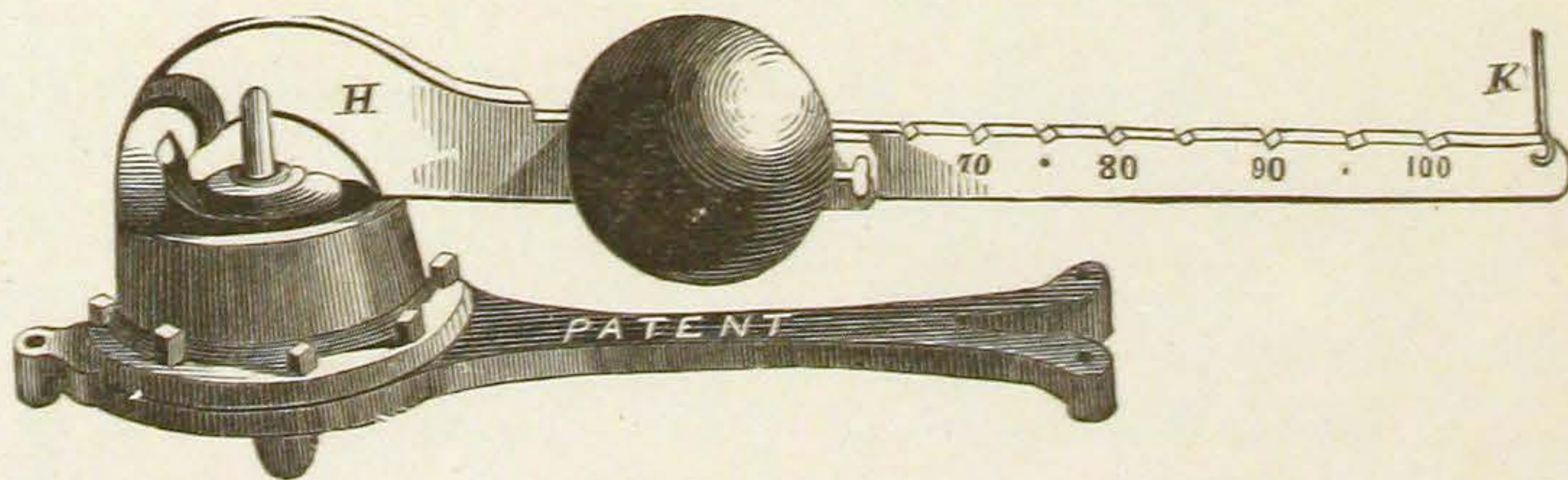


This shows a mode of applying the Steam Syphon to fill a locomotive tender from any body of water within reach near the side of the road. B, is the steam hose attached to the locomotive boiler by a steam cock. A, the Steam Syphon. C, the steam cock tapped into the boiler. D, the suction orifice. E, the discharge hose.

Steam is let on through the hose B, and water is forced through the discharge hose E into the tender. This apparatus will fill an ordinary tender in six to twelve minutes.

## CLARK'S FIRE REGULATOR.

Fig. 456.



All Sizes.



IRON WHISTLES,  
NICKEL SEATED VALVES, &c.

Locomotive Spring Fitts' Steam  
Balance.

Fig. 459.

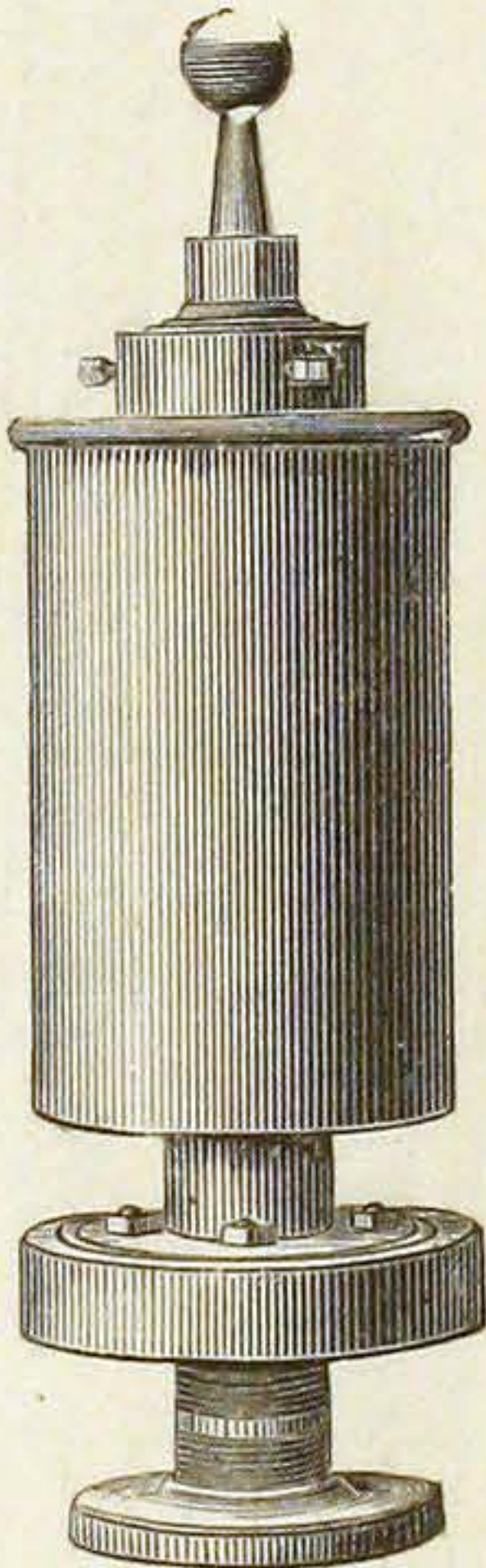


Gong.  
Fig. 457.



Sizes 5 to 12 in.

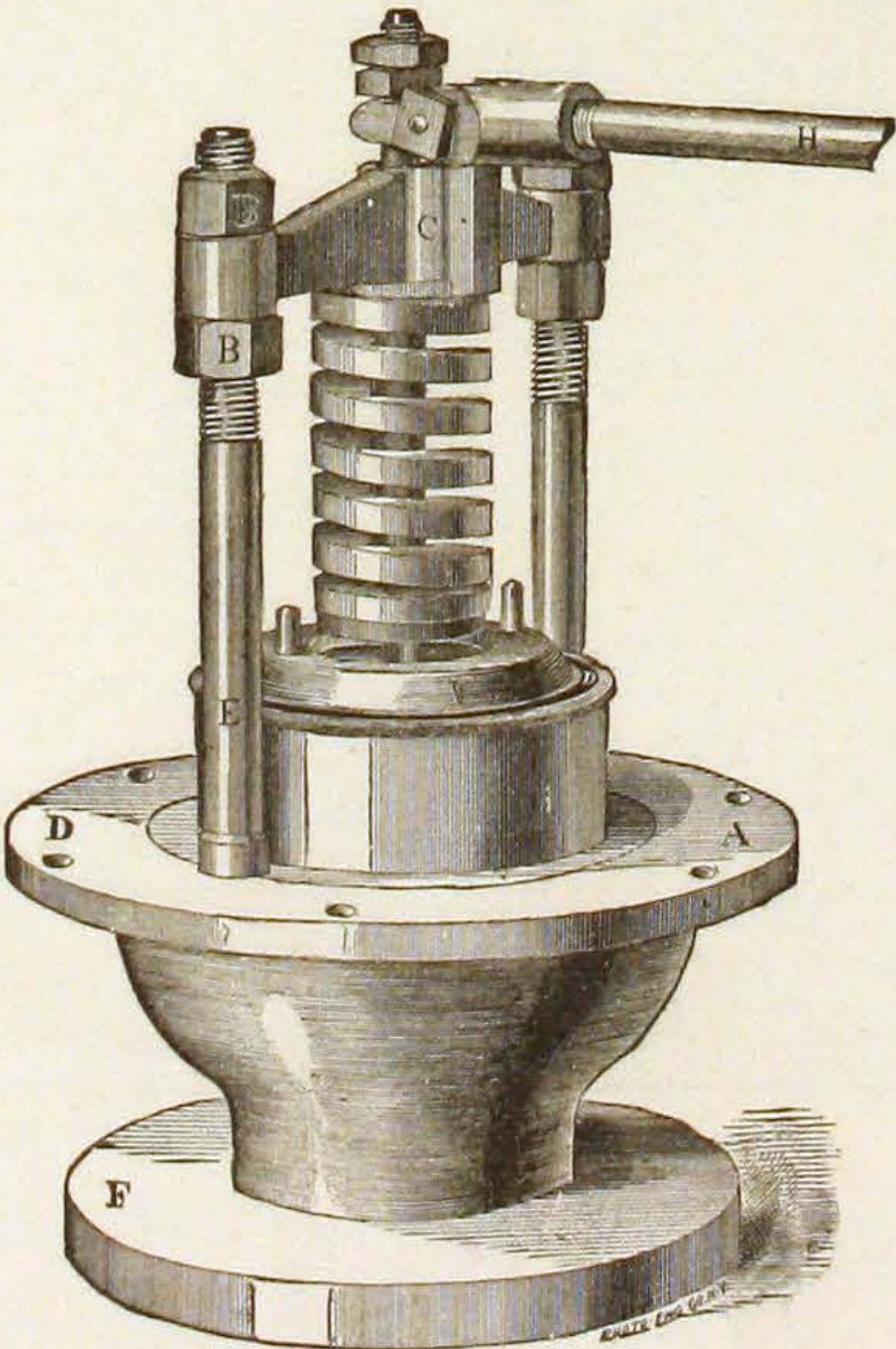
Iron Steam  
Whistle.  
Fig. 458.



Sizes 4 to 16 in.

Ashcroft's Patent Nickel Seated  
Safety Valves.

Fig. 460.

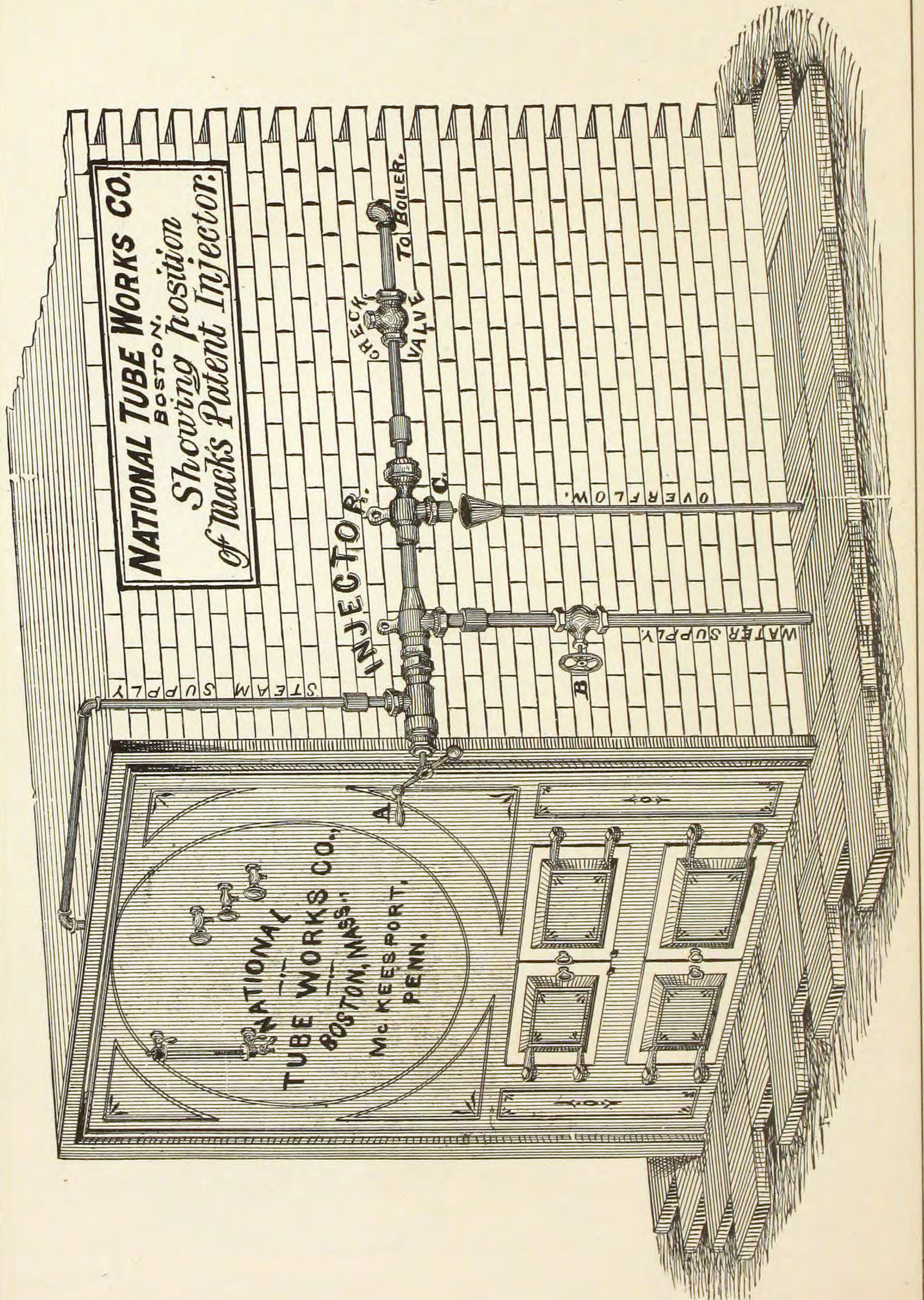


Sizes 1 to 6 in.



## MACK'S PATENT INJECTOR.

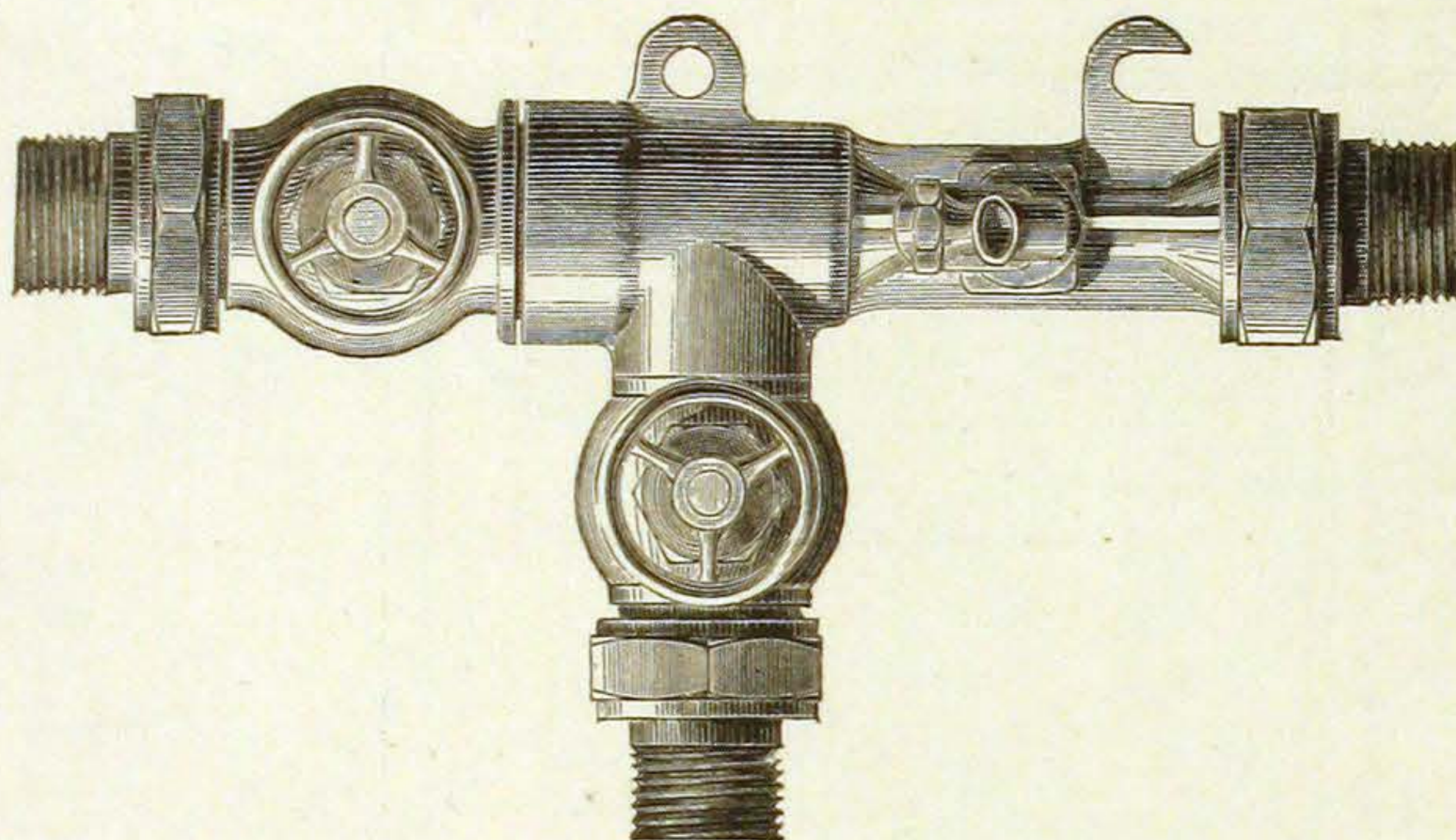
Fig. 461.





INJECTOR AND FEED PUMP.  
FRIEDMANN'S PATENT INJECTOR.

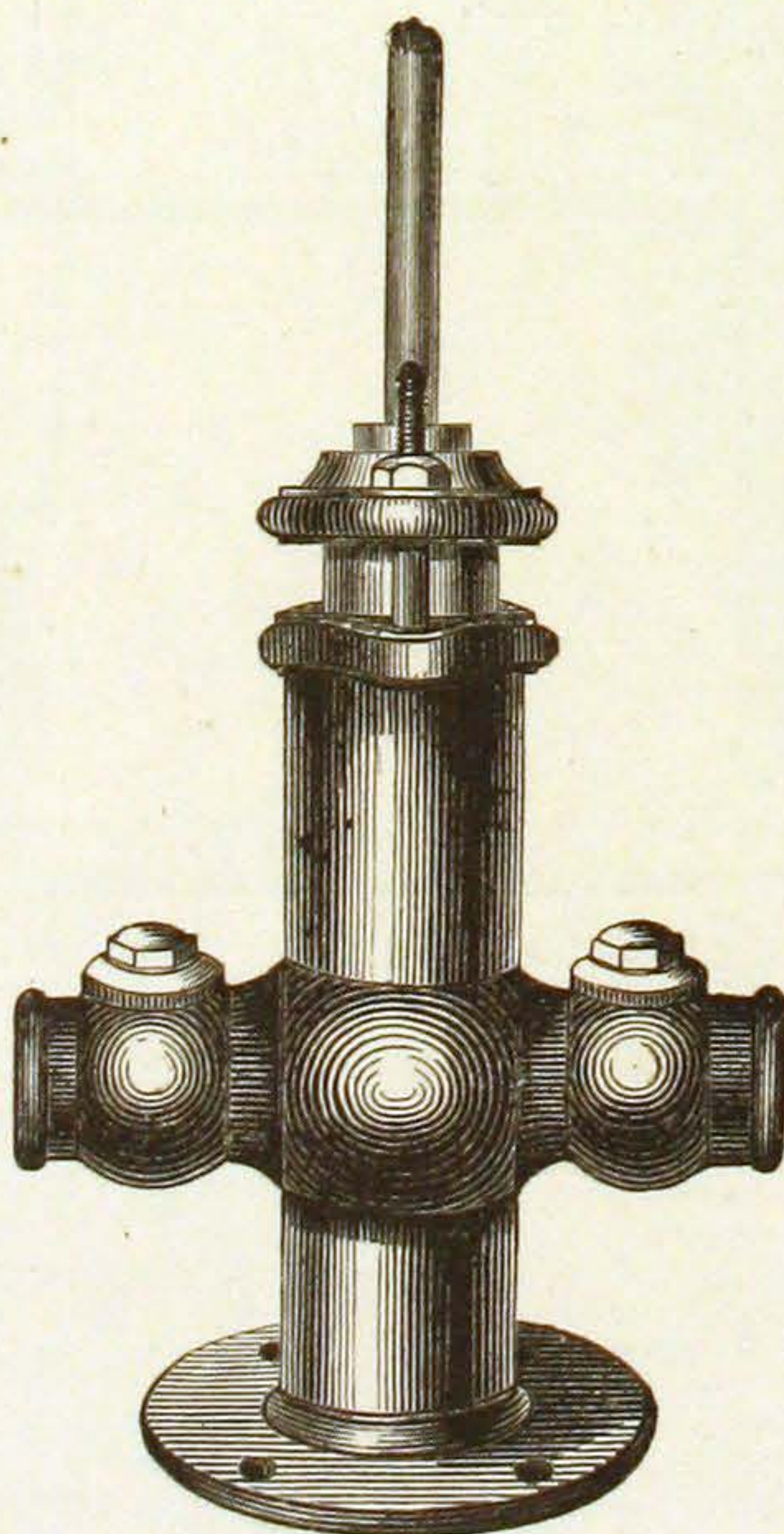
Fig. 462.



For Stationary Boilers or Locomotives.

BOILER FEED PUMP.

Fig. 463.

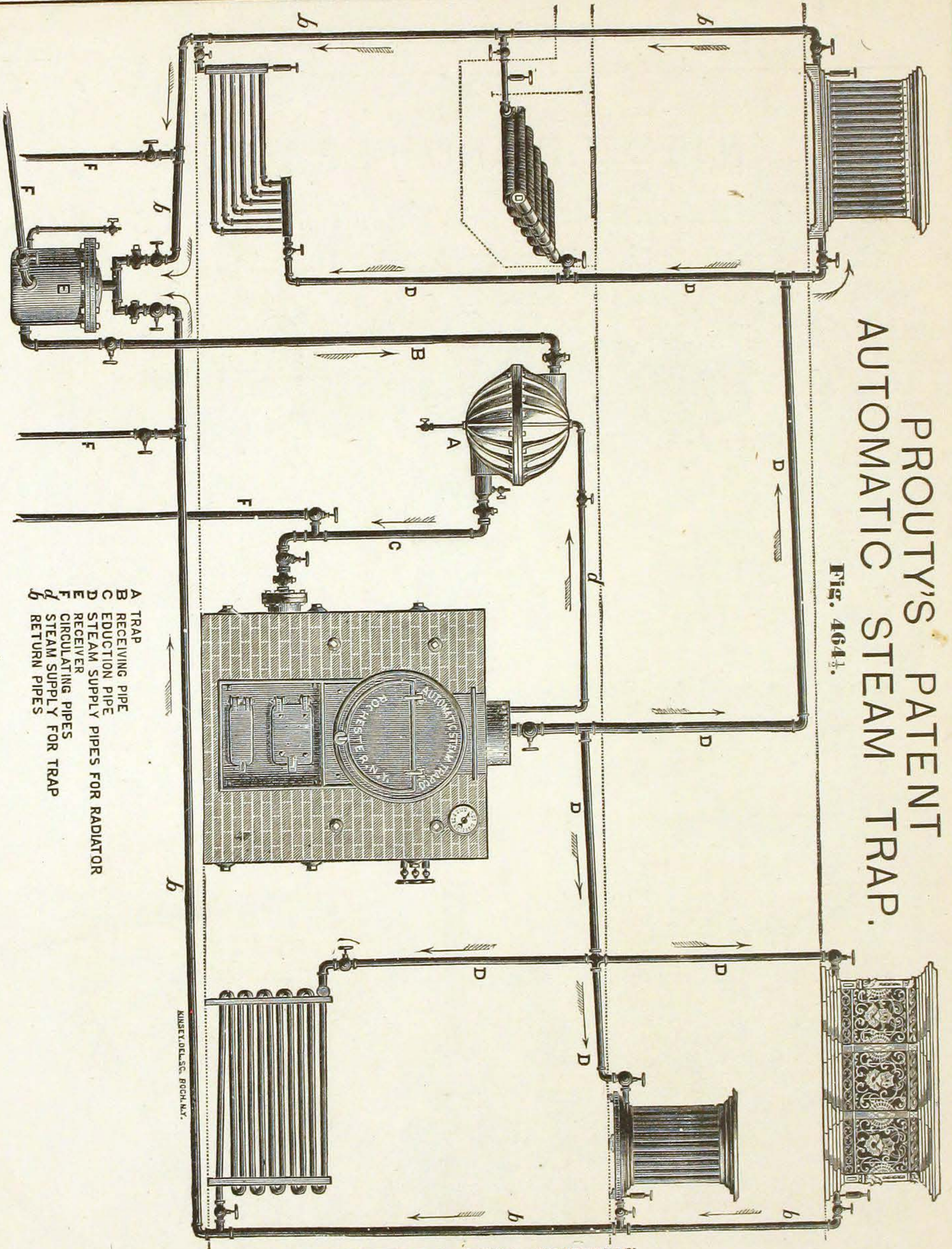


For all Sizes of Boilers.



# PROUTY'S PATENT AUTOMATIC STEAM TRAP.

Fig. 464.



## DIRECTIONS FOR SETTING.

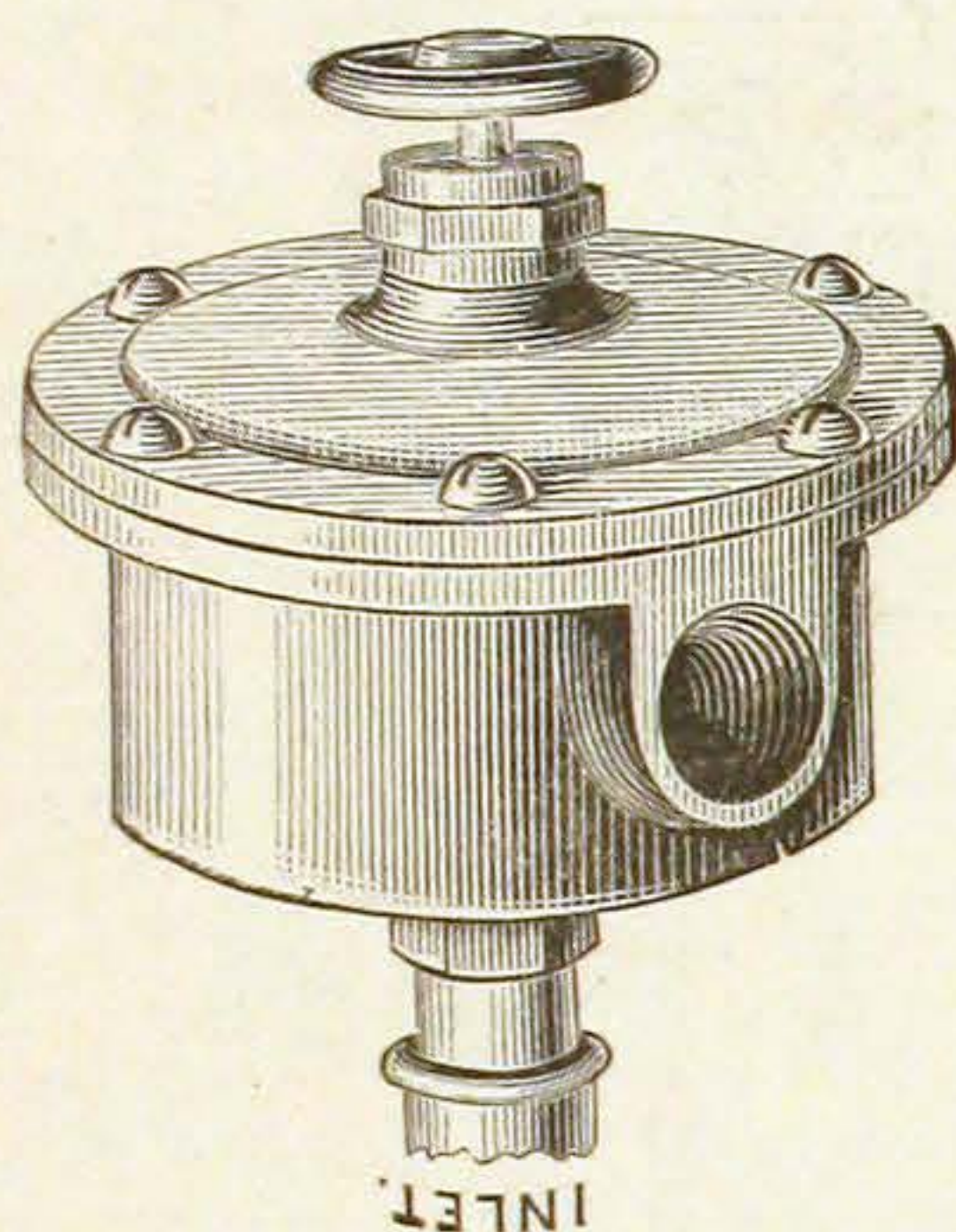
- 1st. Elevate the Trap A, and as near the boiler as possible, four feet above the water line of the boiler,
  - 2d. Place the receiver E (as near as possible) under the Trap A, and not less than two feet below the lowest coil, (four feet would be preferable).
  - 3d. Place check valves at the Exhaust of each Radiator or Coil situated below the water line of the boiler.
  - 4th. Put a check and globe valve on each return pipe, near the receiver E, and do not connect one line of return pipe with another.
  - 5th. Have as much fall as possible on the return pipe *b* that enters the receiver E. Use no less than 1 1/2 inch pipe.
  - 6th. Place globe valves on the circulation pipes *F F F*, attached to the return pipes *b*, receiver E, and eduction pipe C, as a help to get up quick circulation. Put a slide valve with a large opening, in receiving pipe B.
  - 7th. In starting, open globe valve in pipe F, which is connected with pipe C, and globe valve in receiver E, (used in removing sediments). When circulation is started, and steam passes freely through the pipe, close the globe valves so that the water and steam will return to the boiler. When steam is first turned on, open the air cocks until steam issues, then close them.
  - 8th. If circulation is stopped in any of the coils or pipes, it is because a check is stuck; (which might occur in new checks not working freely). In order to start it, open the globe valve in circulation pipe F, attached to eduction pipe C. As soon as circulation is started, close it.
  - 9th. Never connect the eduction pipe to the boiler, so that the pump and eduction pipe use the same inlet to the boiler, which can be tapped in front below the water line.
- SUGGESTIONS.**—Use horizontal checks. Do not run two return pipes into one tee, at the same point or elevation. If unavoidable, put checks before entering the tee. Do not reduce the size of the pipe connected with the Trap A, or receiver E.
- If these directions are followed, we guarantee the working of the Trap.



# STEAM TRAPS, HEATER COILS, &c.

Hawes' Steam Trap.

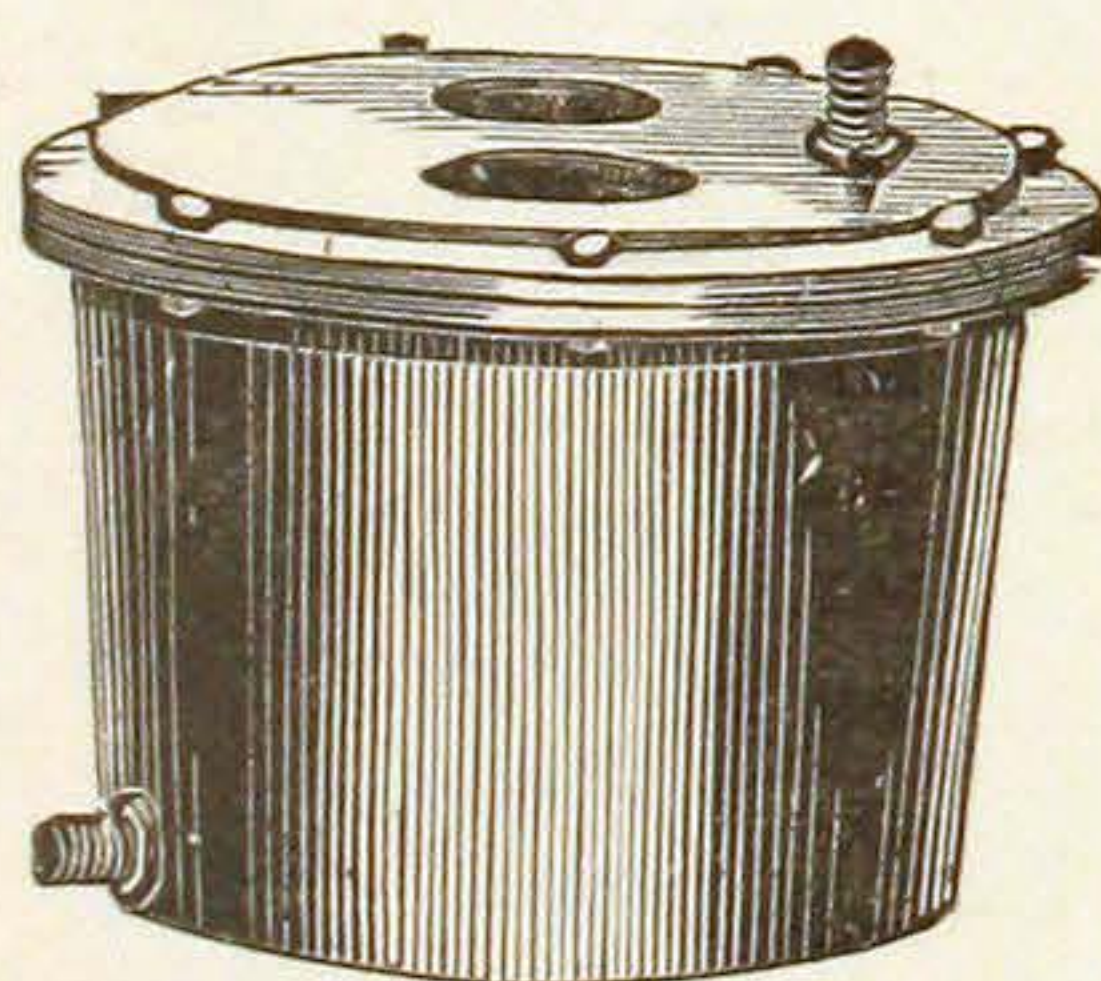
Fig. 465.



No. 1, to Drain	1000 feet	1 in.	Pipe.
No. 2, "	2000	" 1	" "
No. 3, "	4000	" 1	" "
No. 4, "	7000	" 1	" "
No. 5, "	10000	" 1	" "

Coil Heaters.

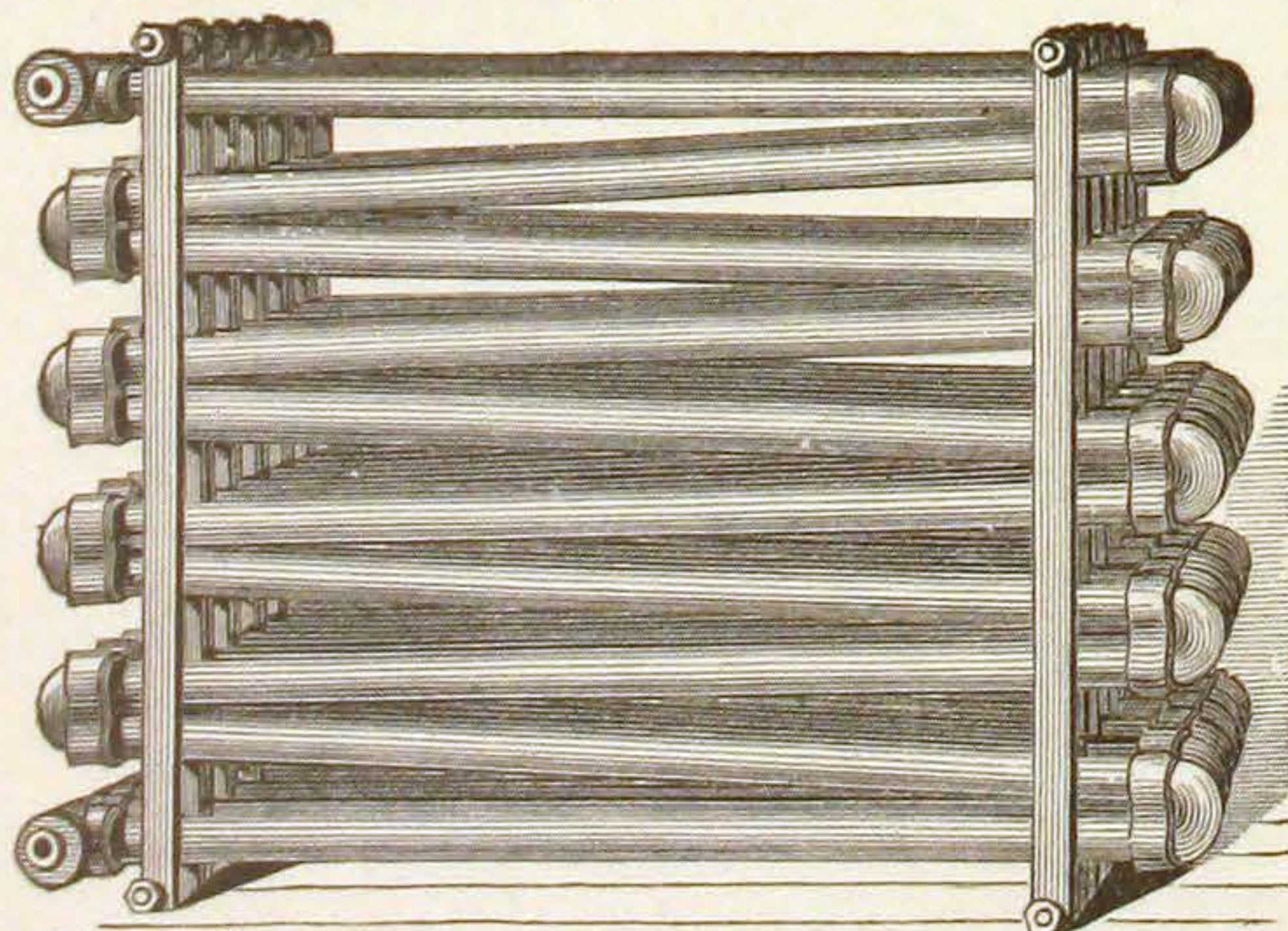
Fig. 467.



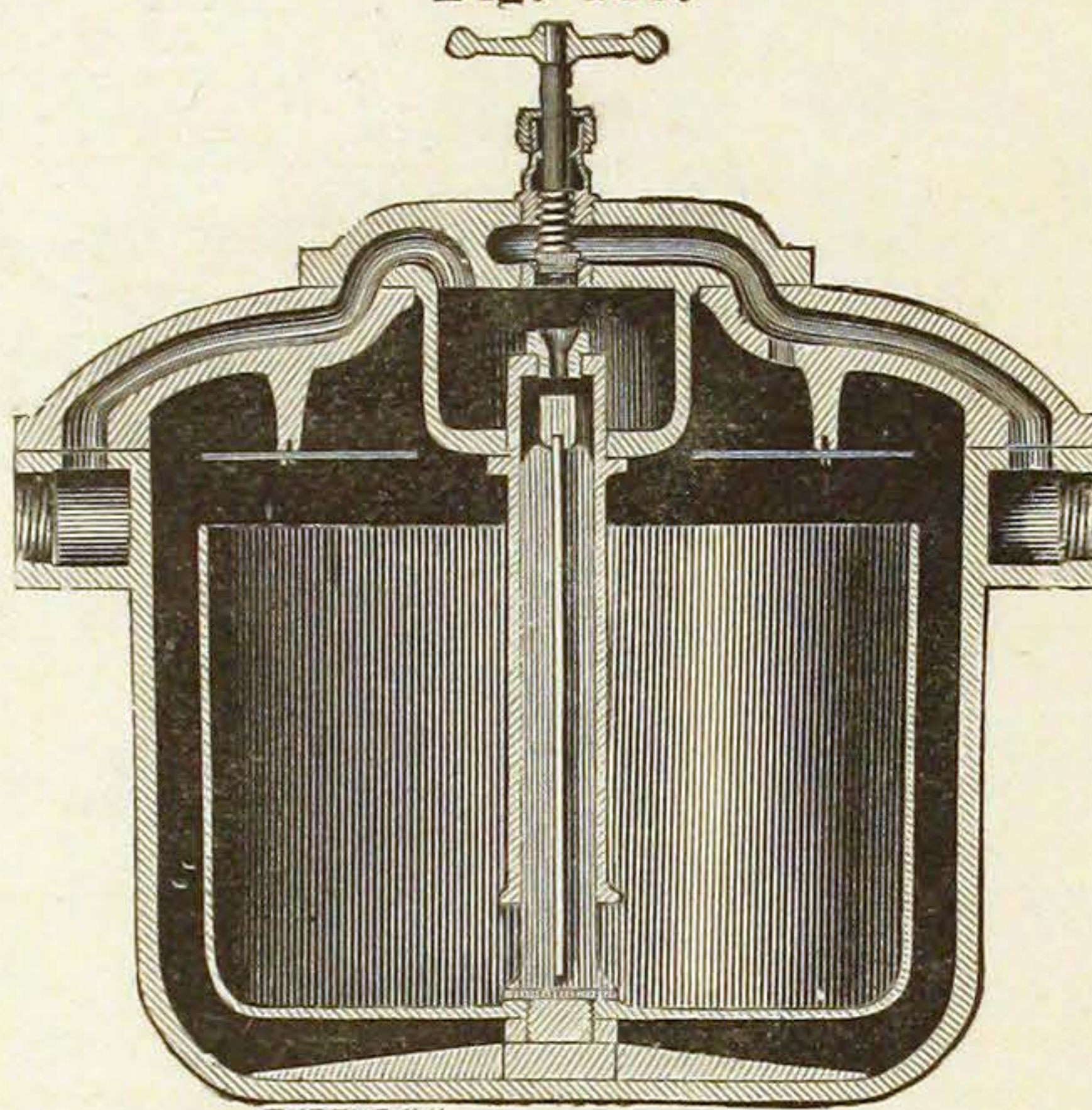
For heating Feed Water.

Return Bend Coil.

Fig. 469.



Any Kind or Size to order.

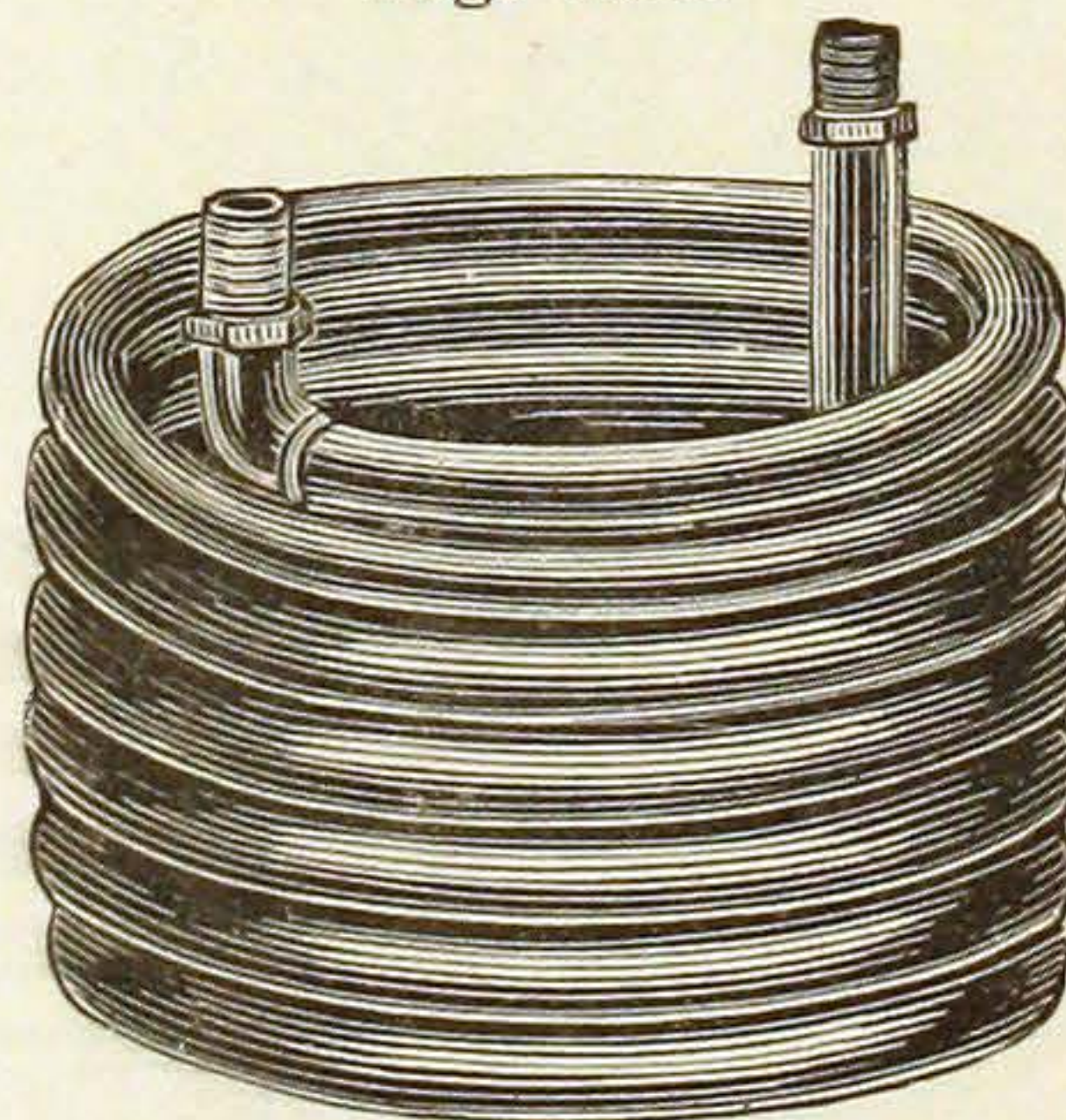


Greatest number of square feet of surface to which it should be applied,

No.	1	2	3	4	5
	350	900	1400	2000	3500

Heater Coils.

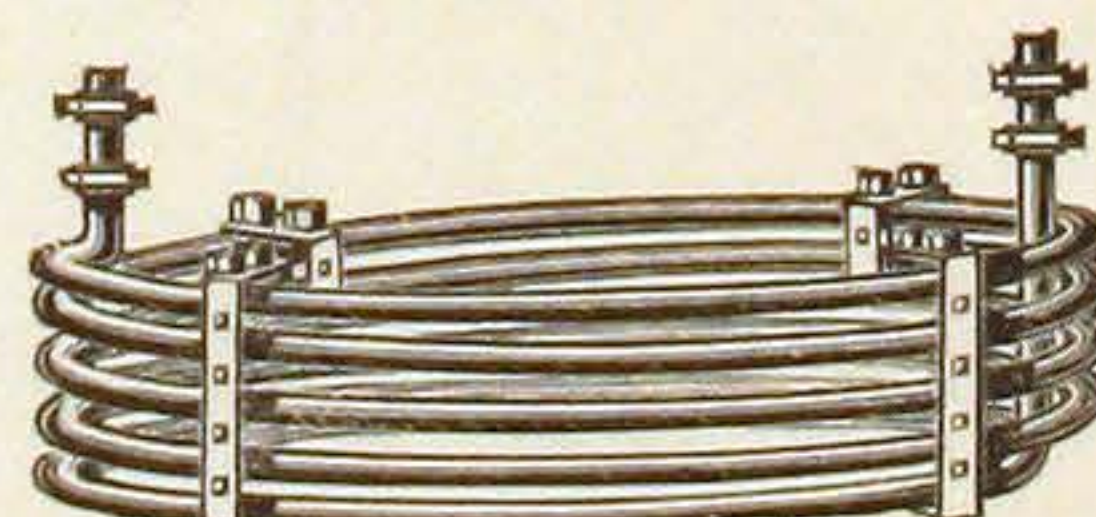
Fig. 468.



Any size of Pipe to order.

Pipe Coil.

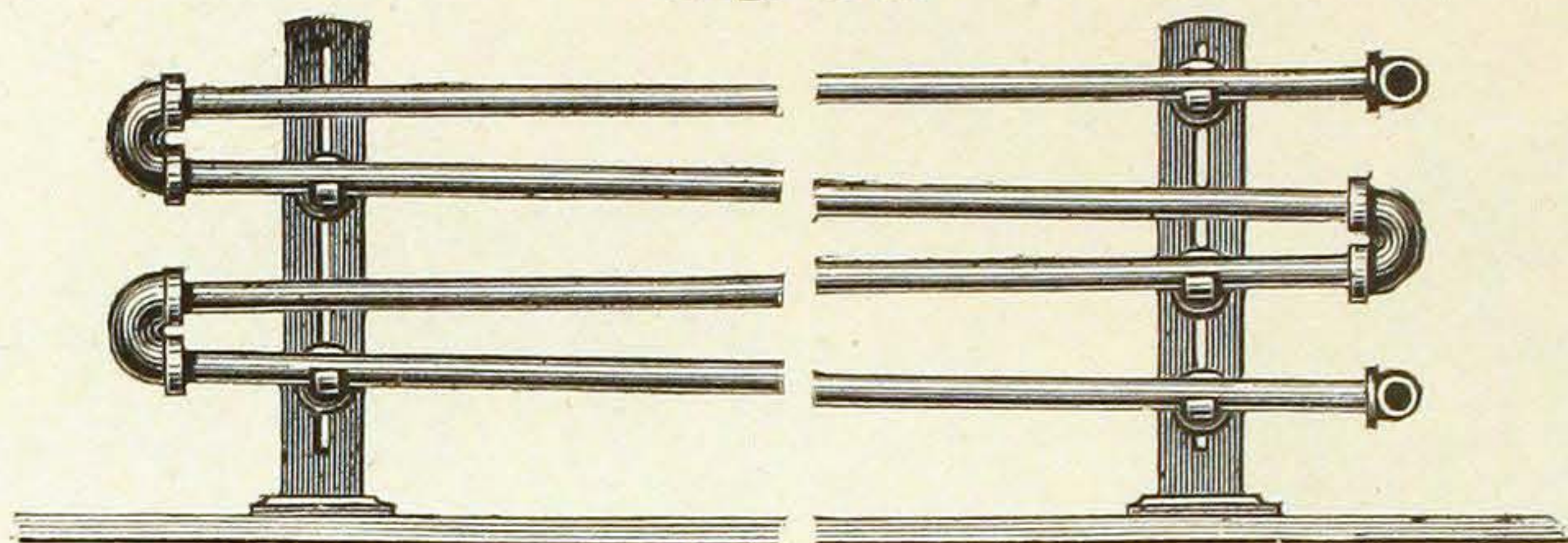
Fig. 470.





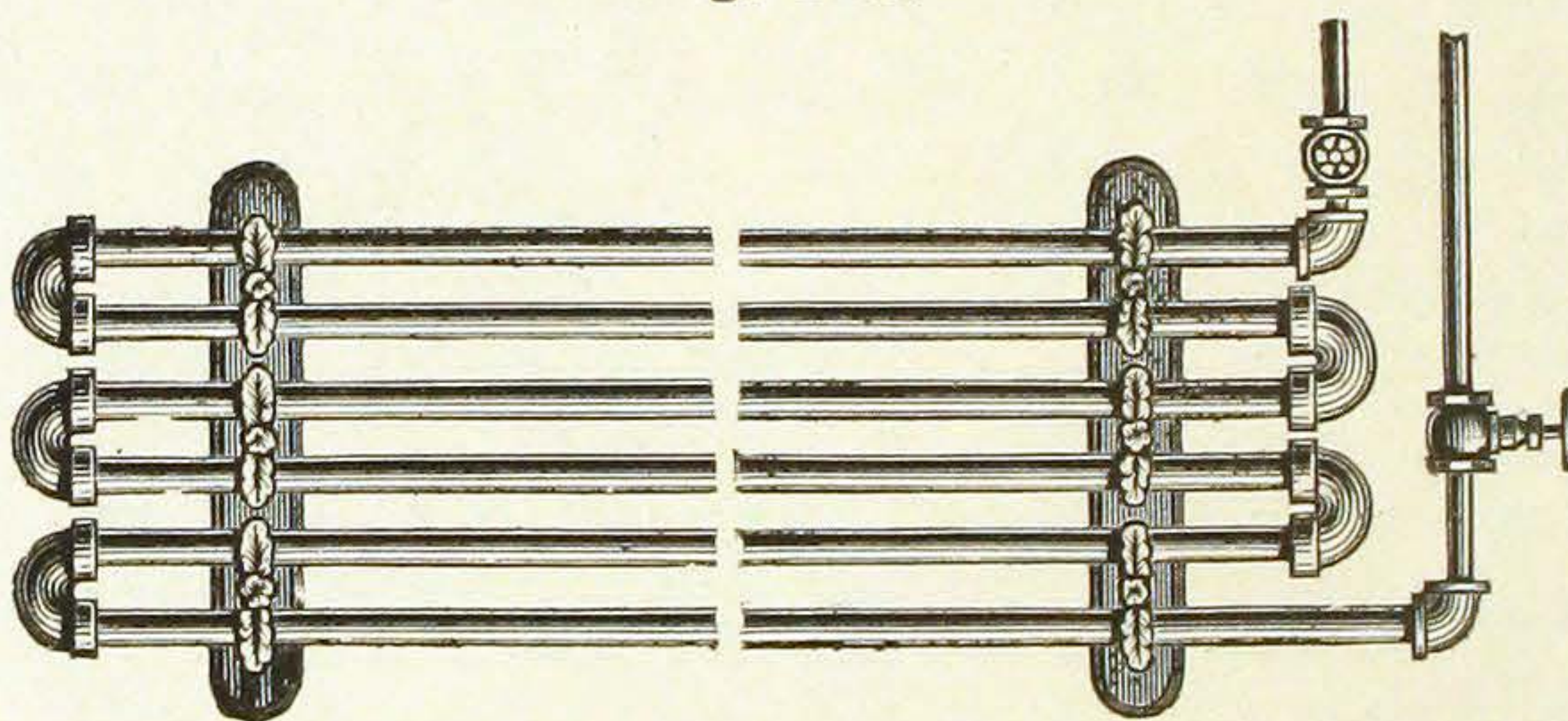
## PIPE COILS.

Fig. 471.



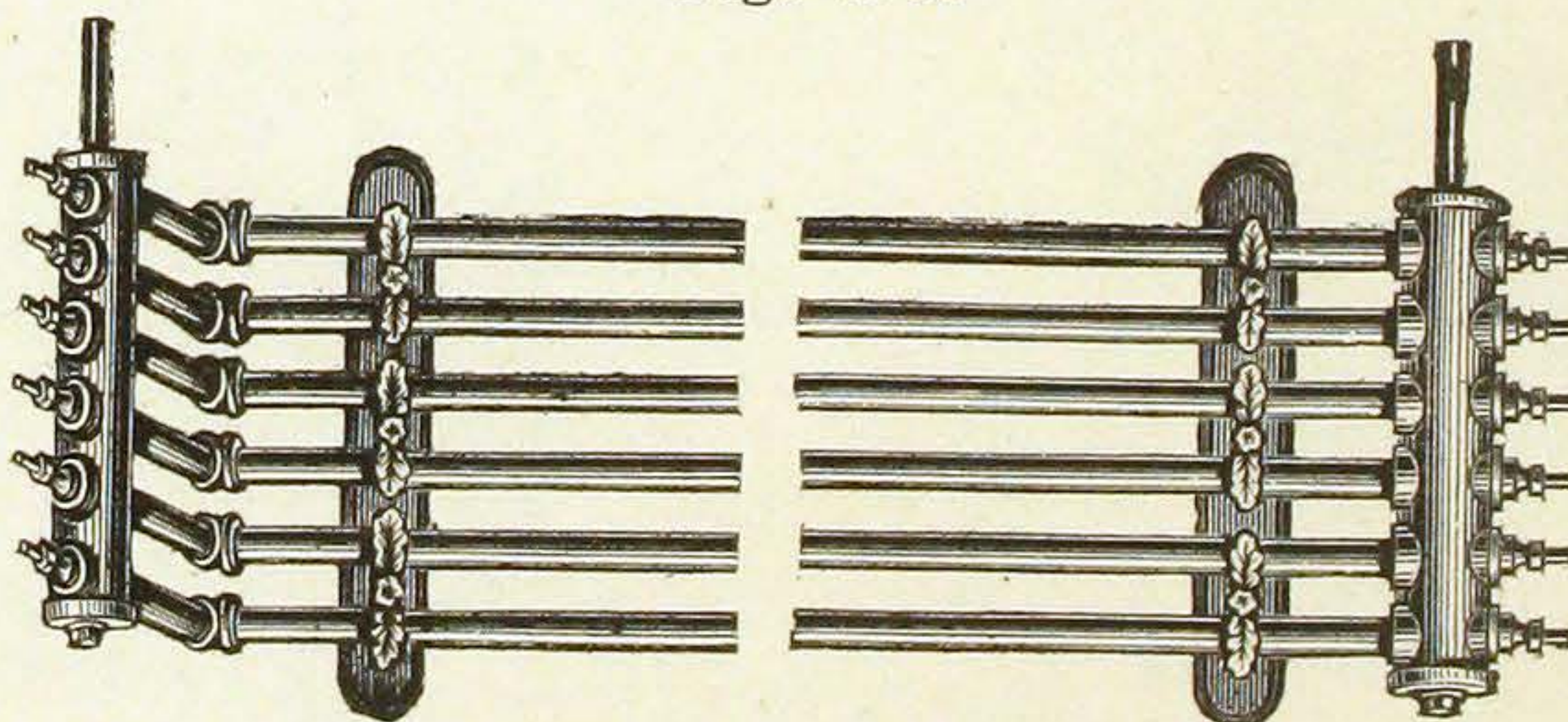
With Return Bends, wide Pattern.

Fig. 472.



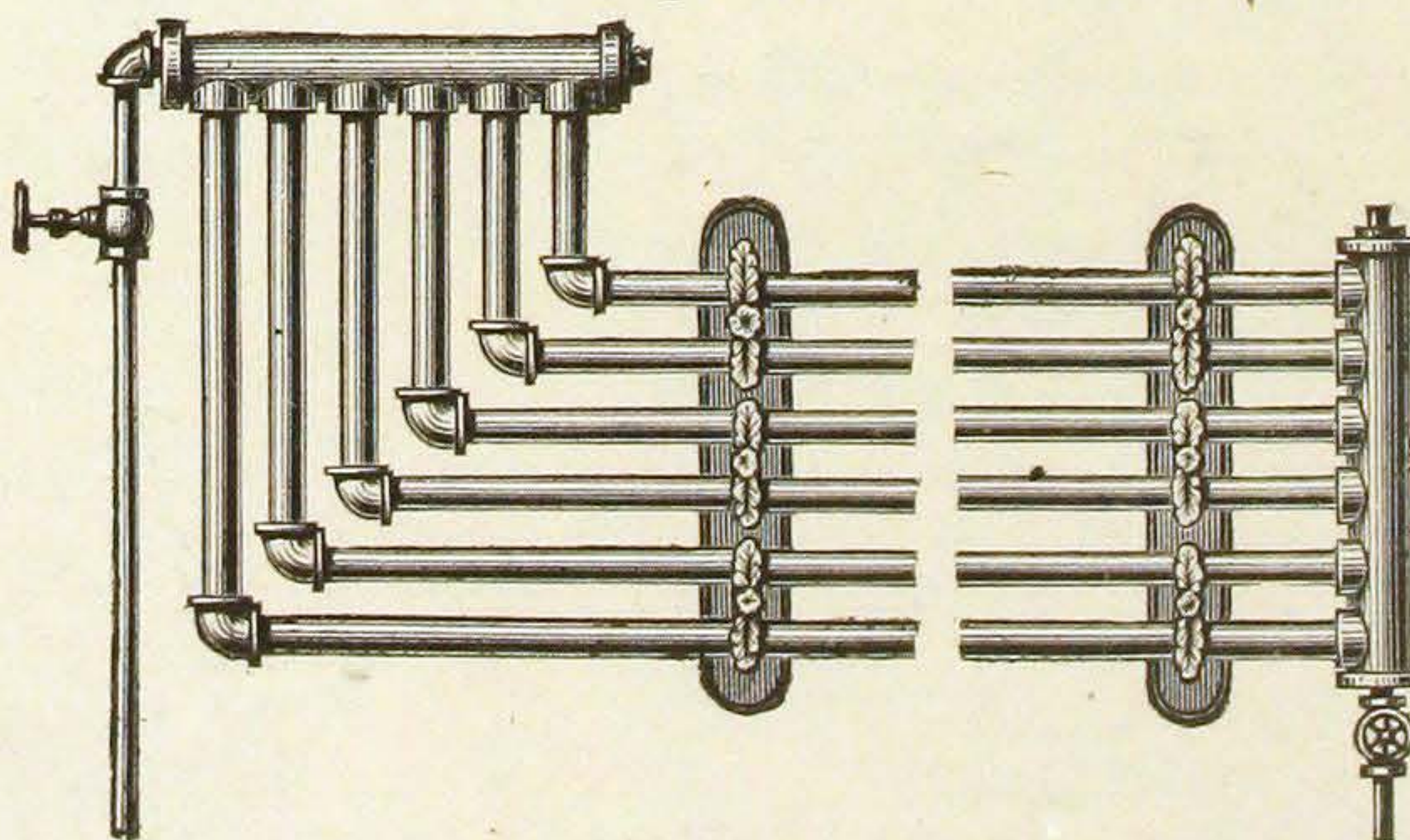
With Return Bends, Close Pattern.

Fig. 473.



With Manifold Valve, Branch Tees.

Fig. 474.



With Branch Tees.

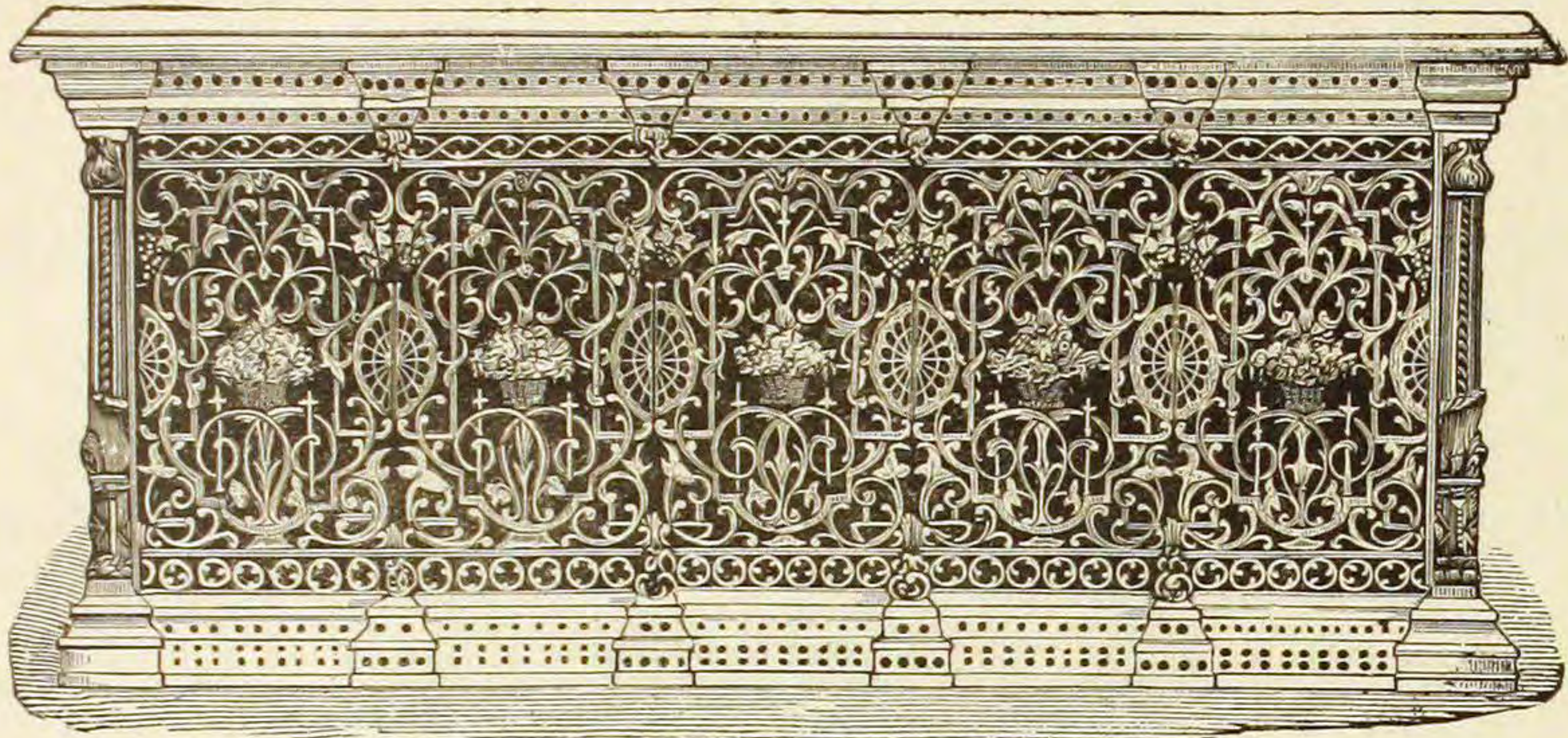
Made to order in any way desired.



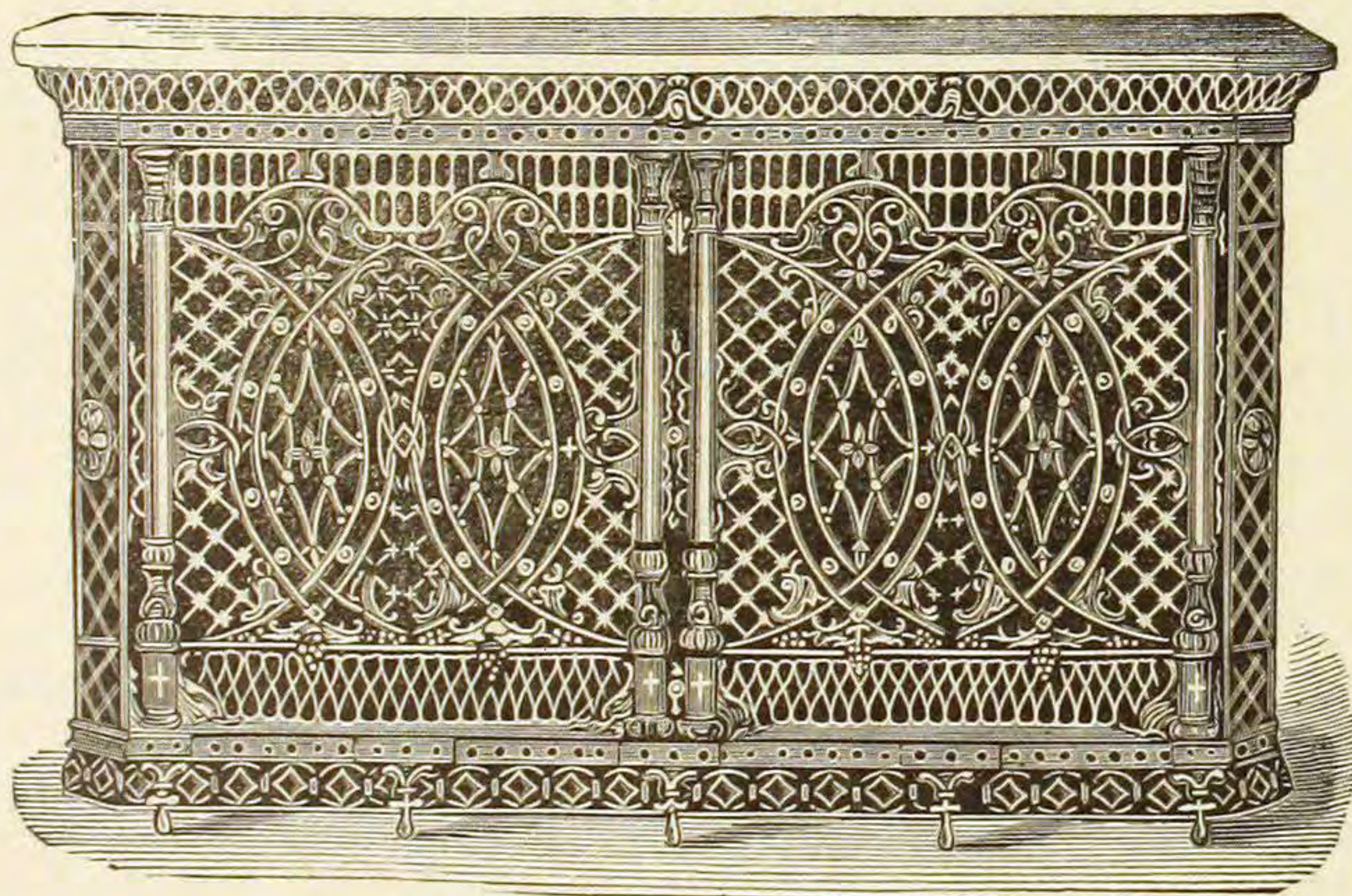
# COIL SCREENS.

115

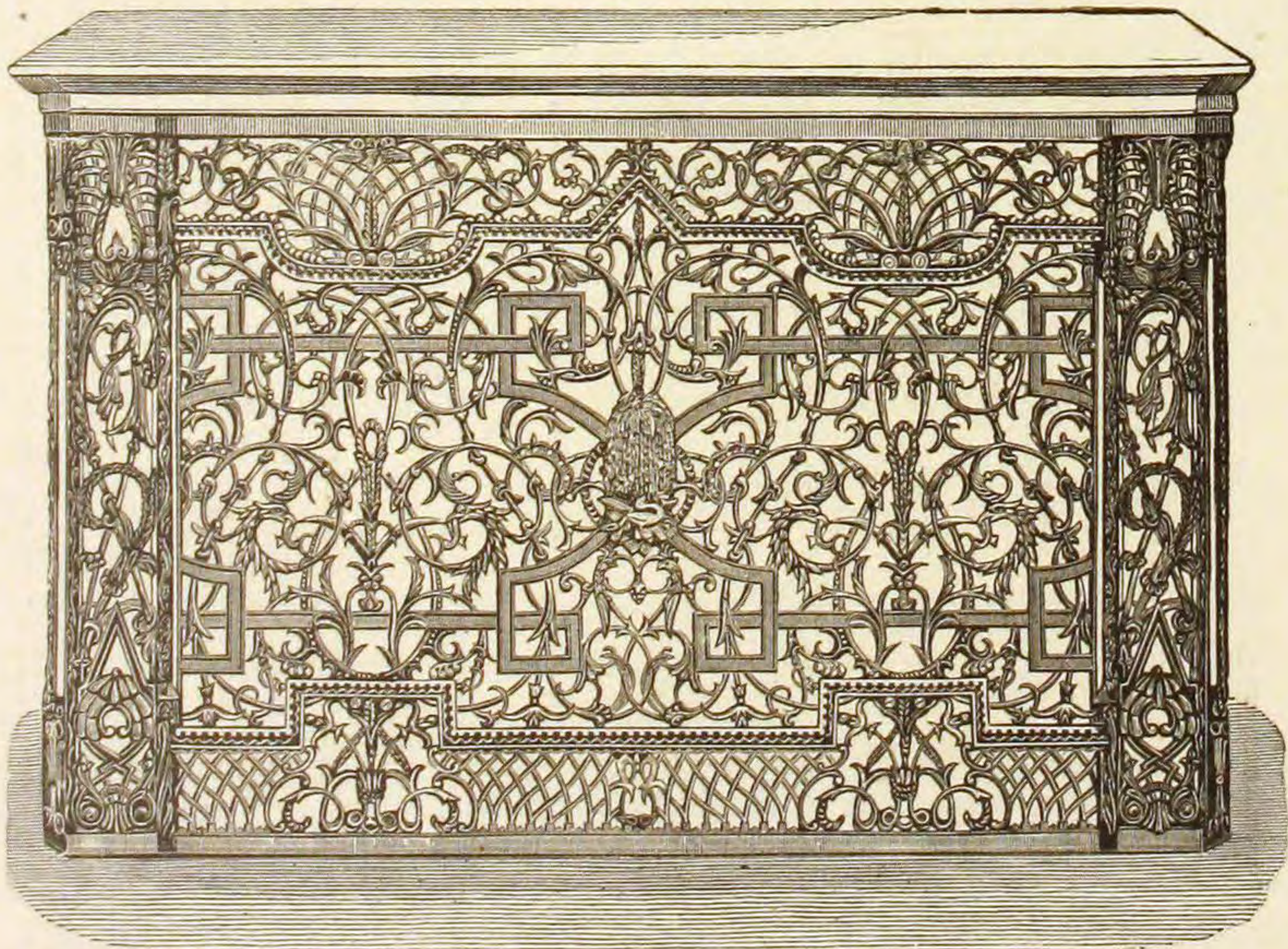
**Fig. 475.**



Ornamental Screen, Pattern No. 1.  
**Fig. 476.**



Ornamental Screen, Pattern No. 2.  
**Fig. 477.**



Ornamental Screen, Pattern No. 3.



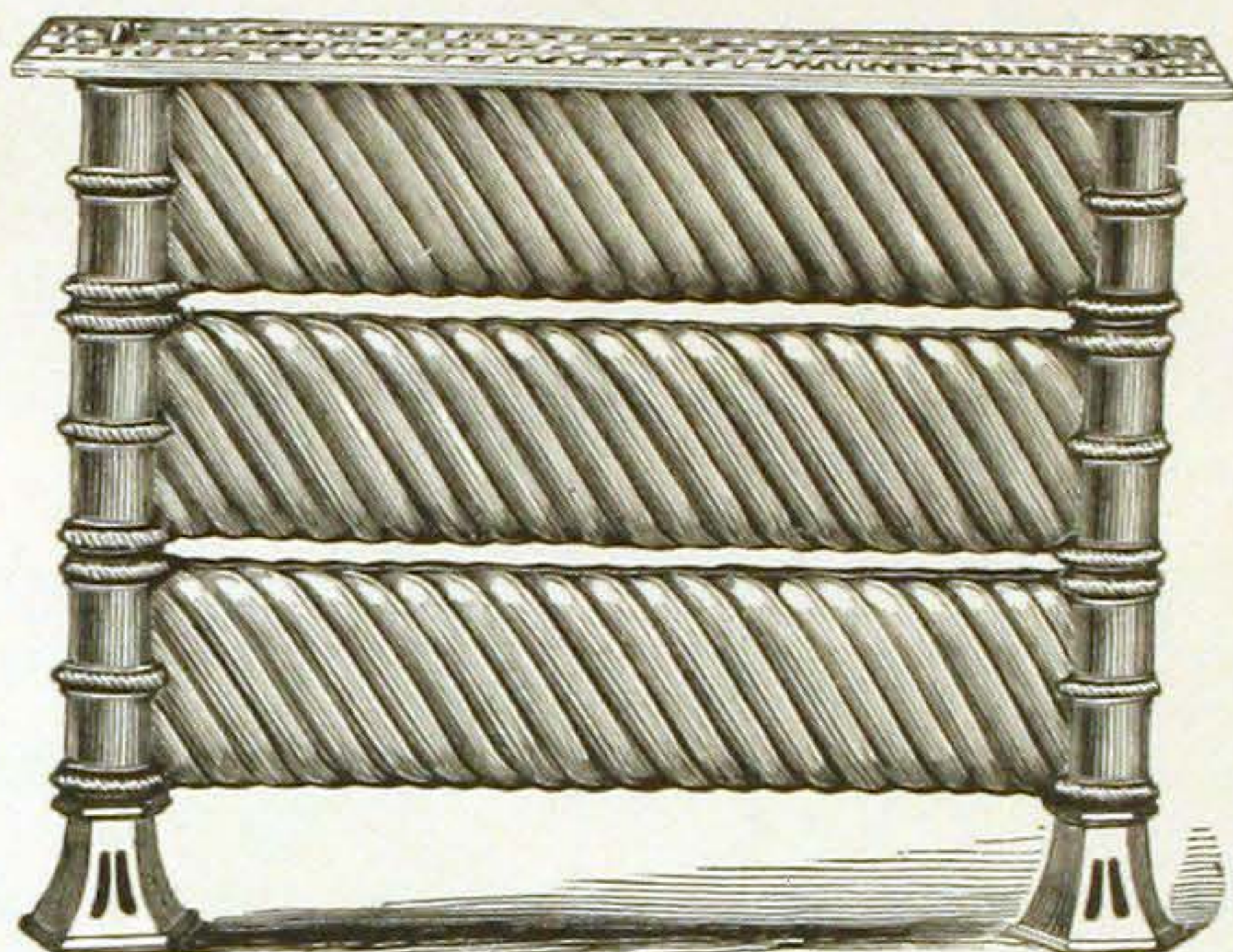
## CAST IRON RADIATORS.

PATENT.

## DIRECT RADIATOR.

For High or Low Pressure.

Fig. 478.



The above cut represents our Steam Radiator. The advantages gained by this Radiator are in the large amount of surface brought directly in contact with the steam, and so arranged as to greatly facilitate the radiation of heat into the surrounding air—the simplicity of construction, ease with which the outside surfaces are kept free from dust—the small number of joints, which reduces the liability of leakage—the provisions made for the separate expansion of each bar—the positive circulation of steam, and complete drainage of condensed steam from the Radiator—the strength and general neatness of appearance—are all points which will recommend themselves to the public. We therefore have no hesitancy in placing this Radiator in the market, as its efficiency has been practically tested as compared with other radiating surfaces, and found to be second to none.

No. of Pipes high.	No. of feet in length.	Extreme height in inches.	Extreme length in inches.	Distance inlet to floor in inches.	Distance outlet to floor in inches.	Square feet of heating surface in a Radiator.
2	1½	22	20¼	17	6½	7½
2	2	22	26¼	17	6½	10
2	2½	22	32¼	17	6½	12½
2	3	22	38¼	17	6½	15
2	3½	22	44¼	17	6½	17½
2	4	22	50¼	17	6½	20
2	5	22	62¼	17	6½	25
3	1½	30	20¼	25	6½	11
3	2	30	26¼	25	6½	15
3	2½	30	32¼	25	6½	19
3	3	30	38¼	25	6½	22½
3	3½	30	44¼	25	6½	26
3	4	30	50¼	25	6½	30
3	5	30	62¼	25	6½	37½
4	1½	38	20¼	33	6½	15
4	2	38	26¼	33	6½	20
4	2½	38	32¼	33	6½	25
4	3	38	38¼	33	6½	30
4	3½	38	44¼	33	6½	35
4	4	38	50¼	33	6½	40
4	5	38	62¼	33	6½	50

Where more heating surface is required that can be obtained from one Radiator, two or more can be set together, connected by R and L nipples, and thus any amount of surface can be obtained without occupying much space.

The low pressure is warranted to stand 50 lbs. pressure per square inch. The high pressure, 100 lbs. per square inch.

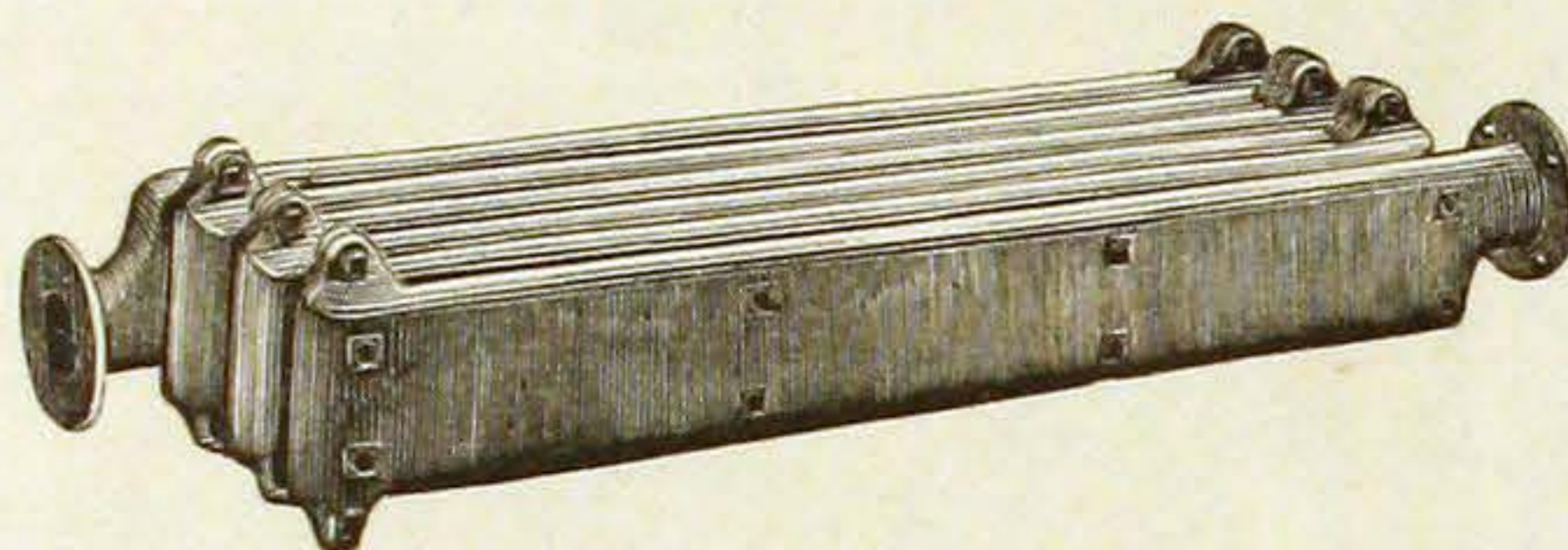
In ordering, please state whether the Radiators are wanted for high or low pressure.



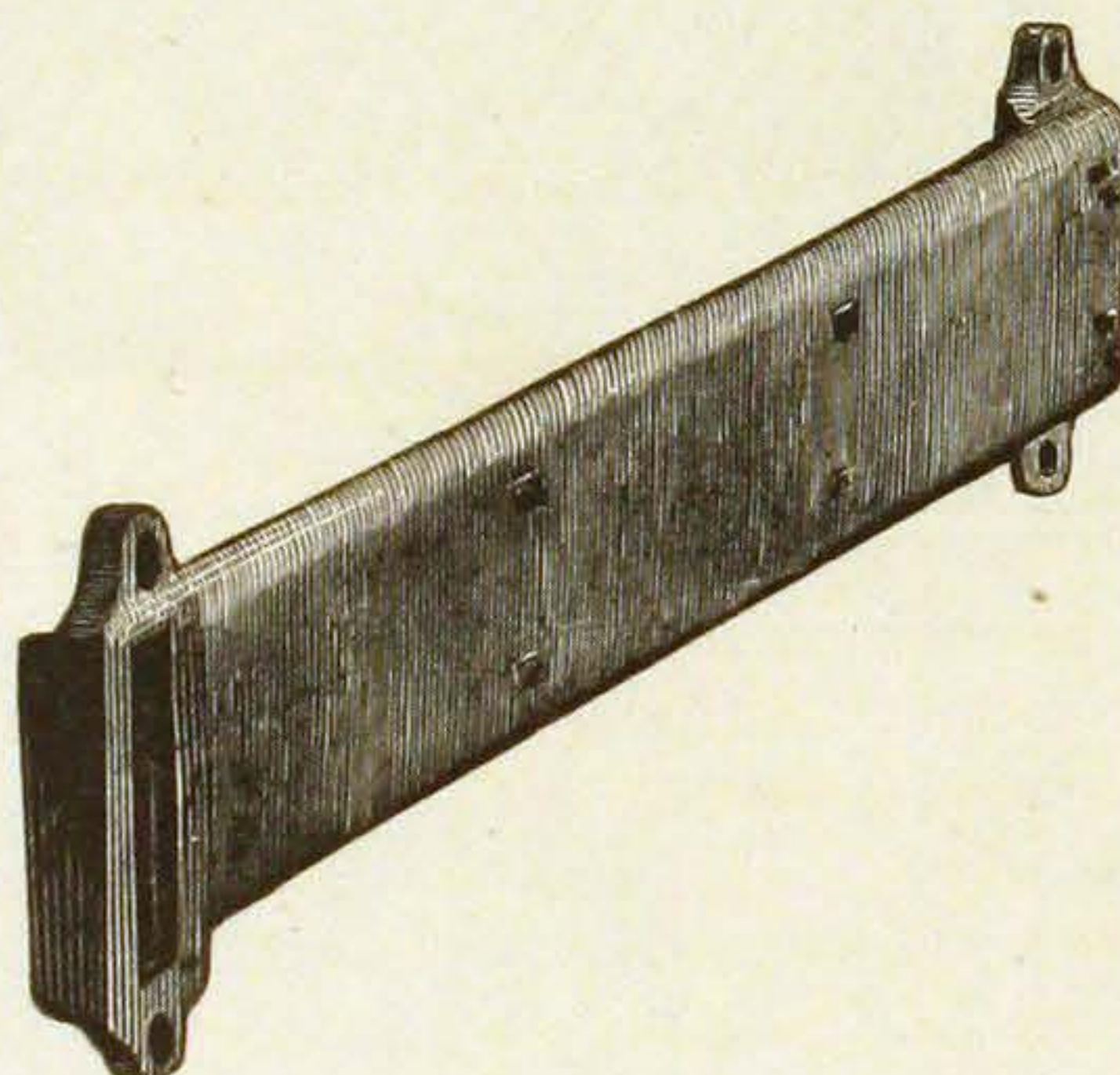
## CAST IRON RADIATORS. INDIRECT RADIATOR.

FOR STEAM OR HOT WATER.

Fig. 479.



For Hot Water.



For Steam.

This Radiator is simple in construction, effective, compact, and so arranged as to present a large amount of surface to the natural current of air when heated. Not requiring a large body of water to fill it, it thus overcomes the fault generally found in Hot Water Apparatus, which require a large amount of water to fill them and a proportionate amount of time in heating them up.

The Radiating surface of this Radiator is what is generally termed "plain surface," and is distinguishable from "extended surface" in the fact that the inner or hot water (or steam) surface is the same, or nearly the same, as the outer or radiating surface, and depends more upon radiating its heat directly into the air, than upon conducting it through metal points or other extended surface ( $\frac{3}{4}$  inch or more in length) and then throwing off its heat. More surface may be gained it is true, by extending the outer surface, but it requires no very close observation to discover that the more the heat is diluted or extended (as with some other articles), the thinner it becomes.

The low pressure are warranted to stand 50 lbs. pressure per square inch. The high pressure, 100 lbs. per square inch.

In ordering, please state whether the Radiators are wanted for high or low pressure.

Size, 4 feet long, 8 in. wide, containing 6 square feet of heating surface.

### Reasons why Cast Iron Radiators are Superior to Wrought Iron Radiators.

First.—As a radiator of heat it is *twenty per cent.* better than Wrought Iron.

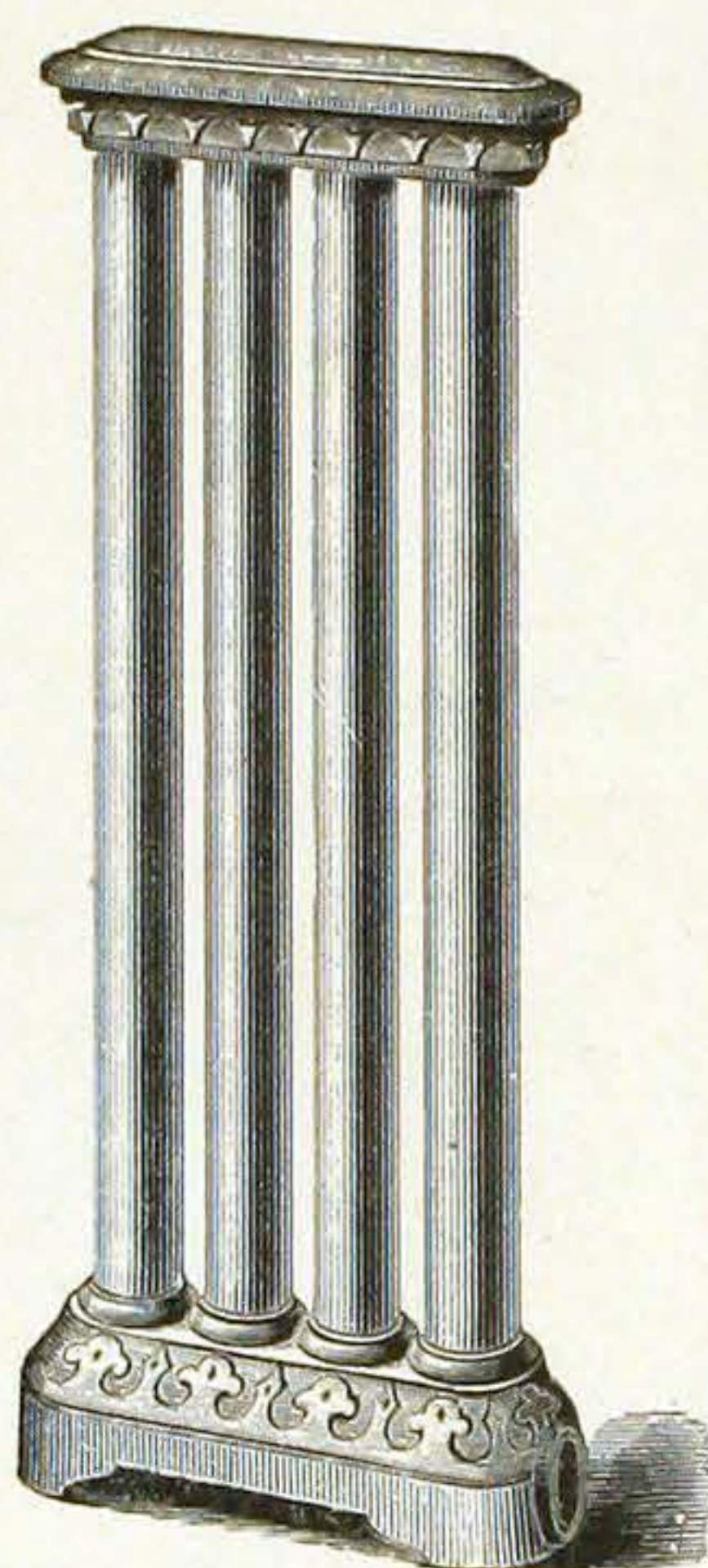
Second.—When exposed to oxydation in cellars and other damp localities, *it is more than twice as durable as Wrought Iron.*

Third.—Cost, they being over *twenty-five per cent.* cheaper than Wrought Iron Radiators.

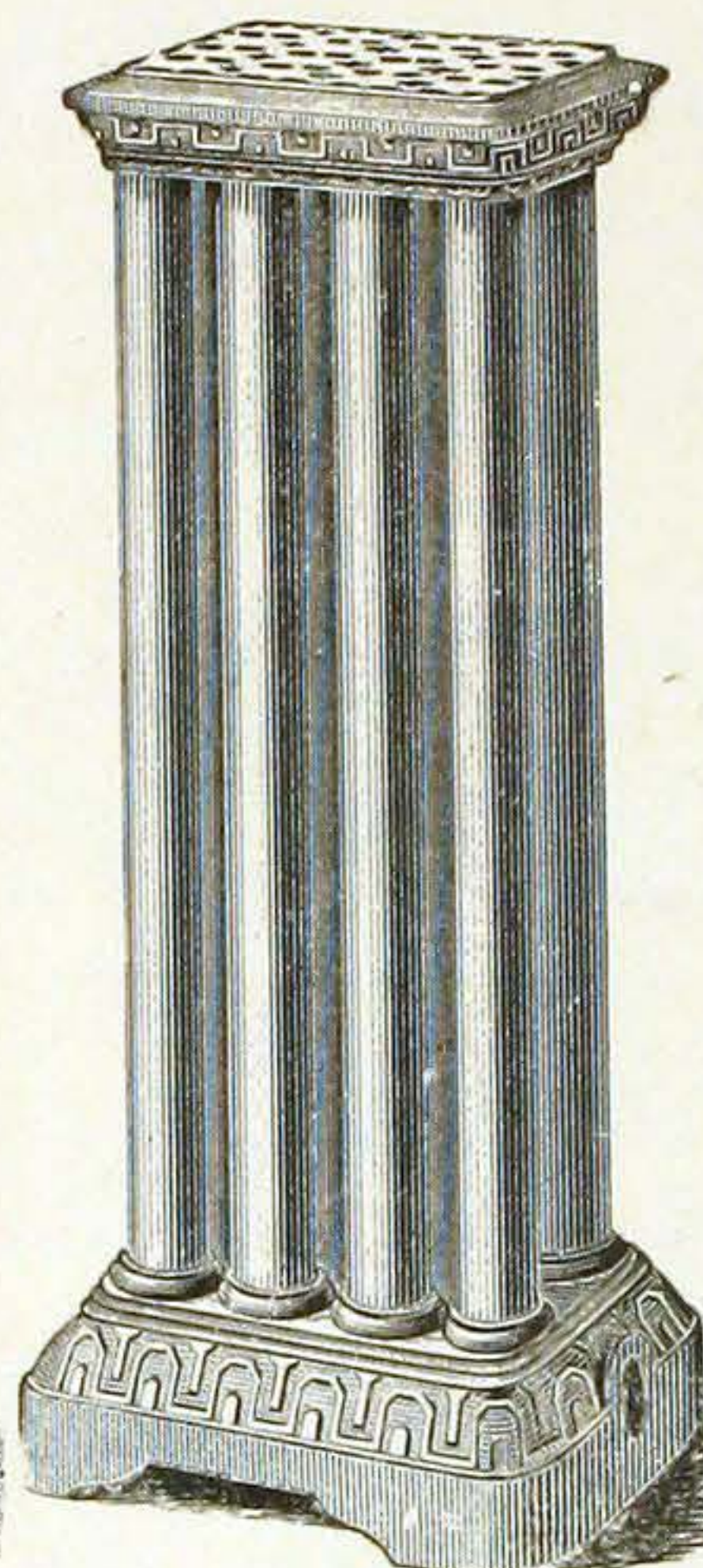


# NASON'S PATENT RADIATORS.

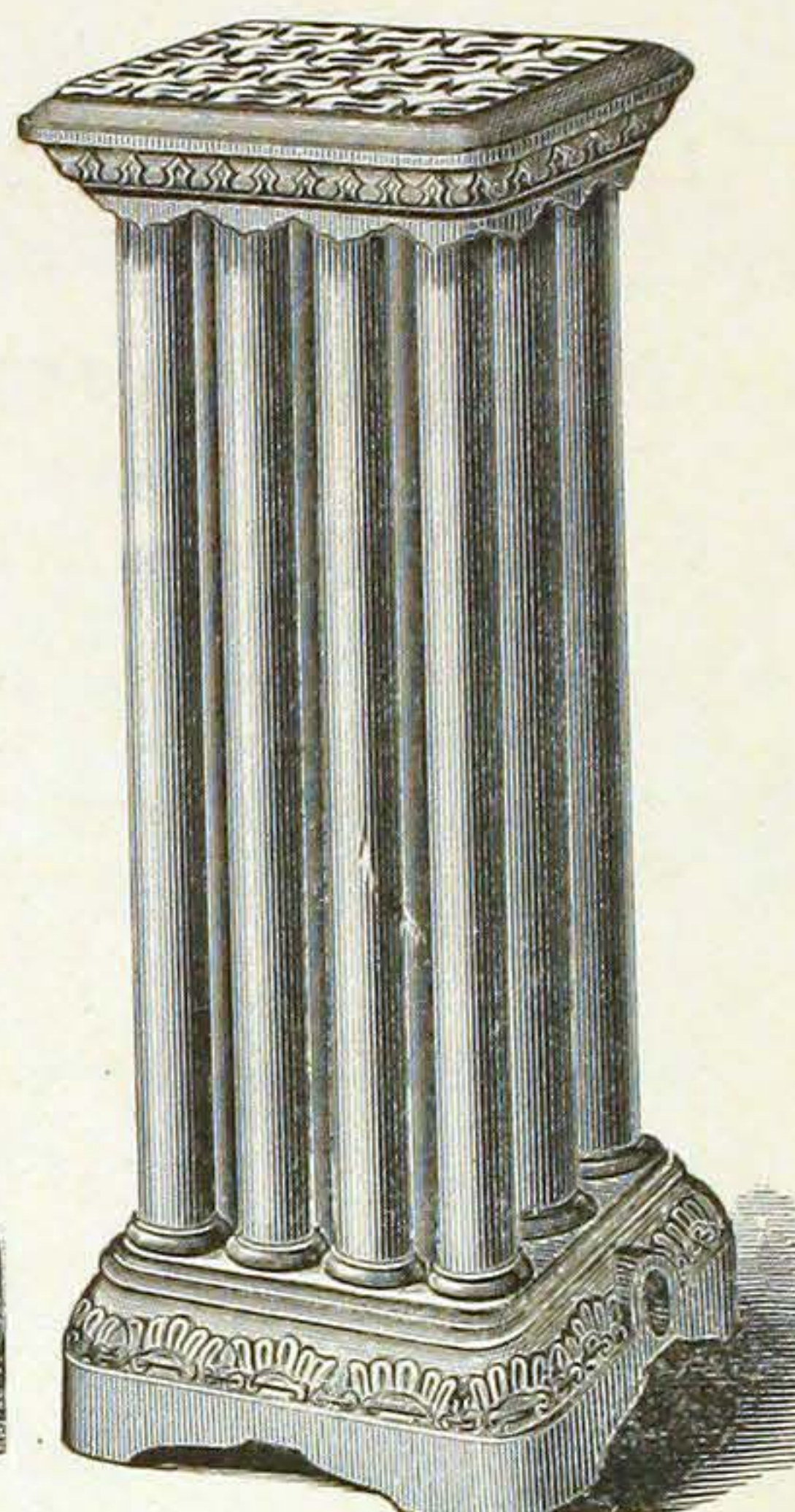
Fig. 480.



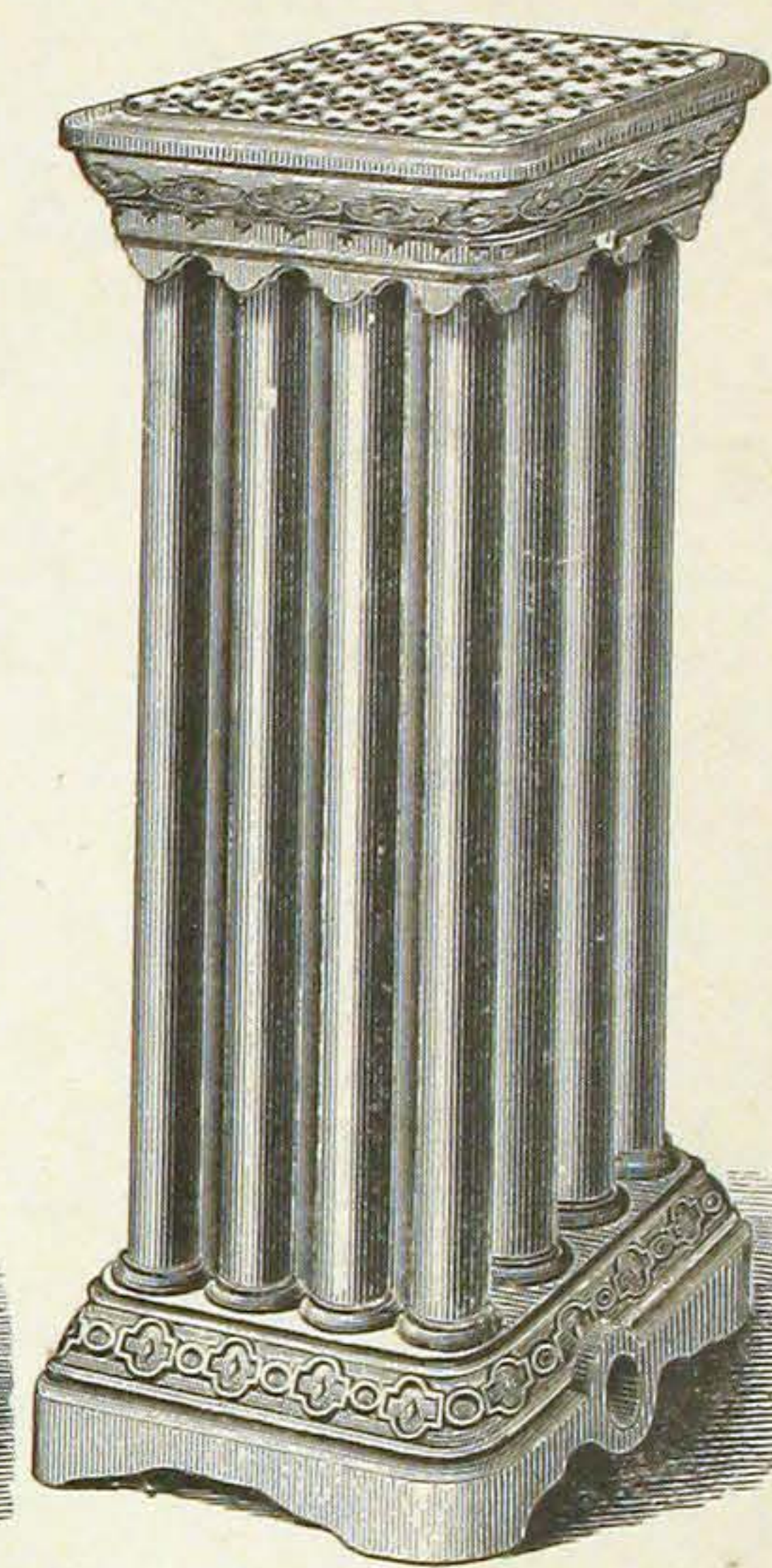
No. 1.  
Single Width.



No. 2.  
Two Pipes Wide.

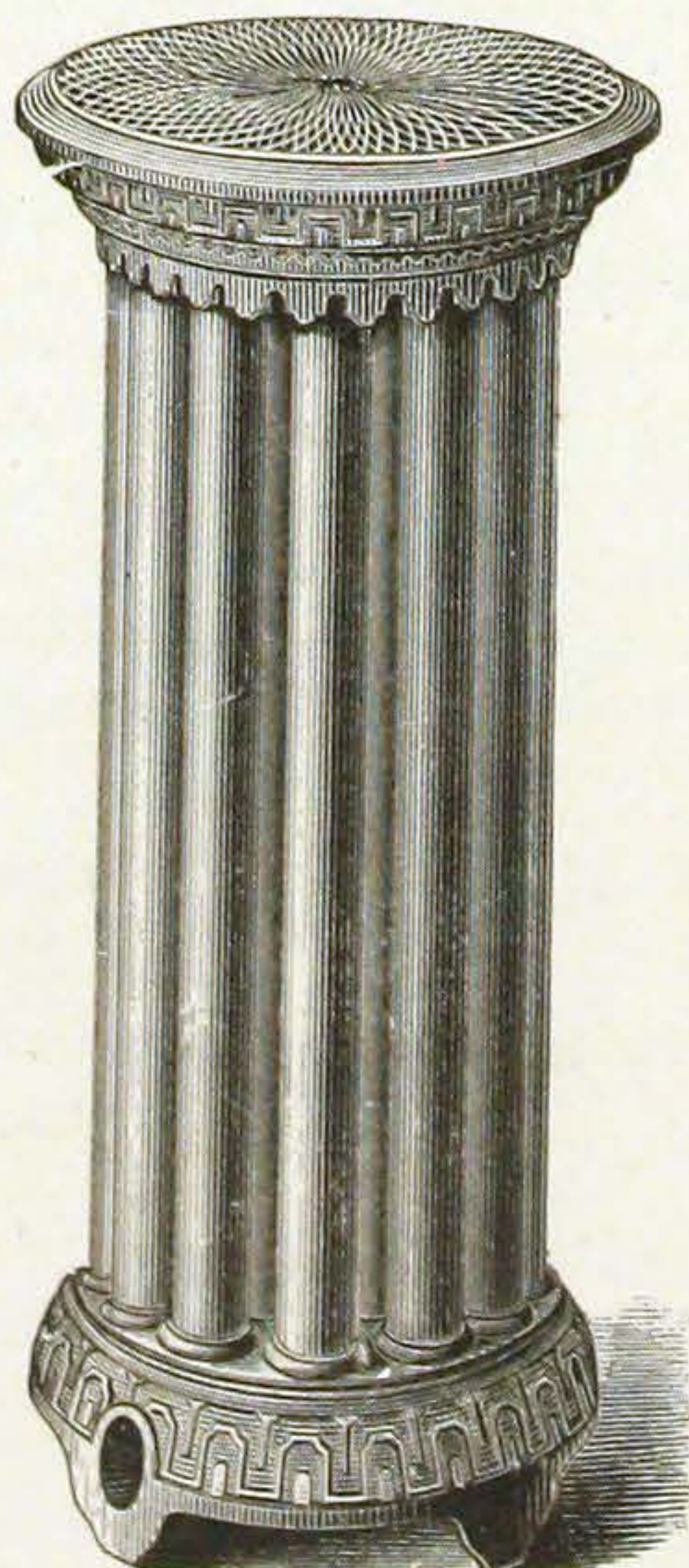


No. 3.  
Three Pipes Wide.



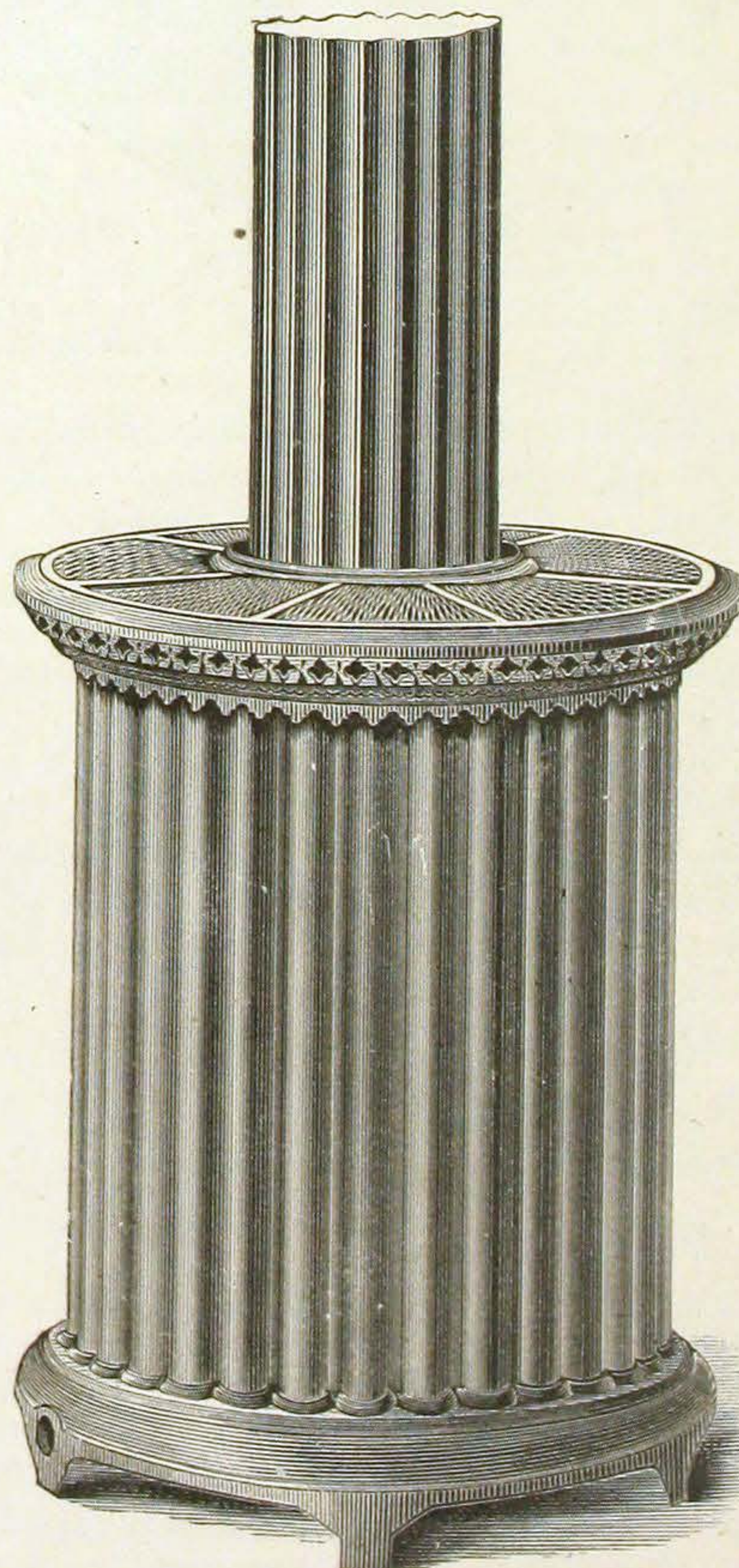
No. 4.  
Four Pipes Wide.

Fig. 481.



Circular.

Fig. 482.



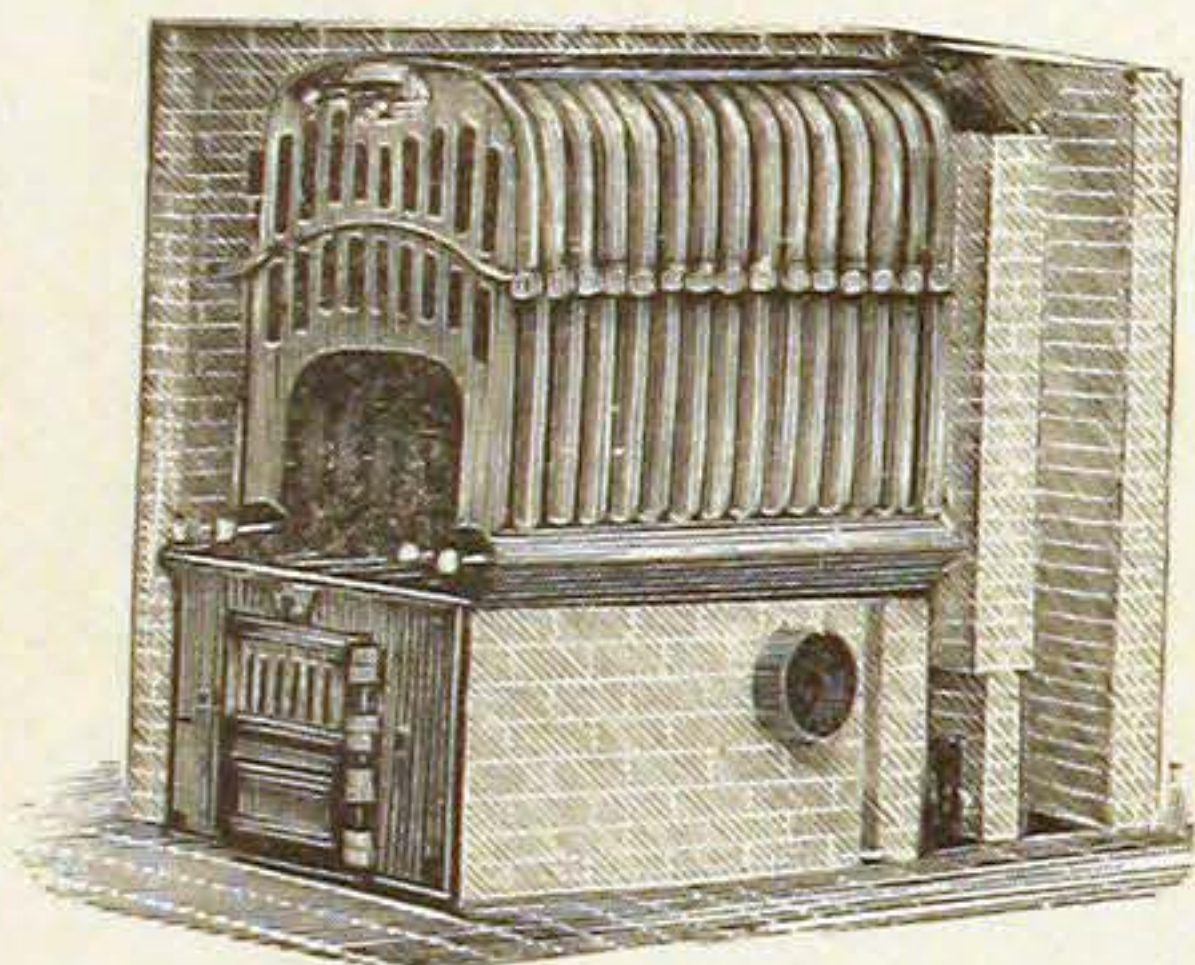
Circular Radiator, to go around a Post.



CAST IRON HOT WATER BOILERS.  
FOR GREEN-HOUSES AND OTHER PURPOSES.

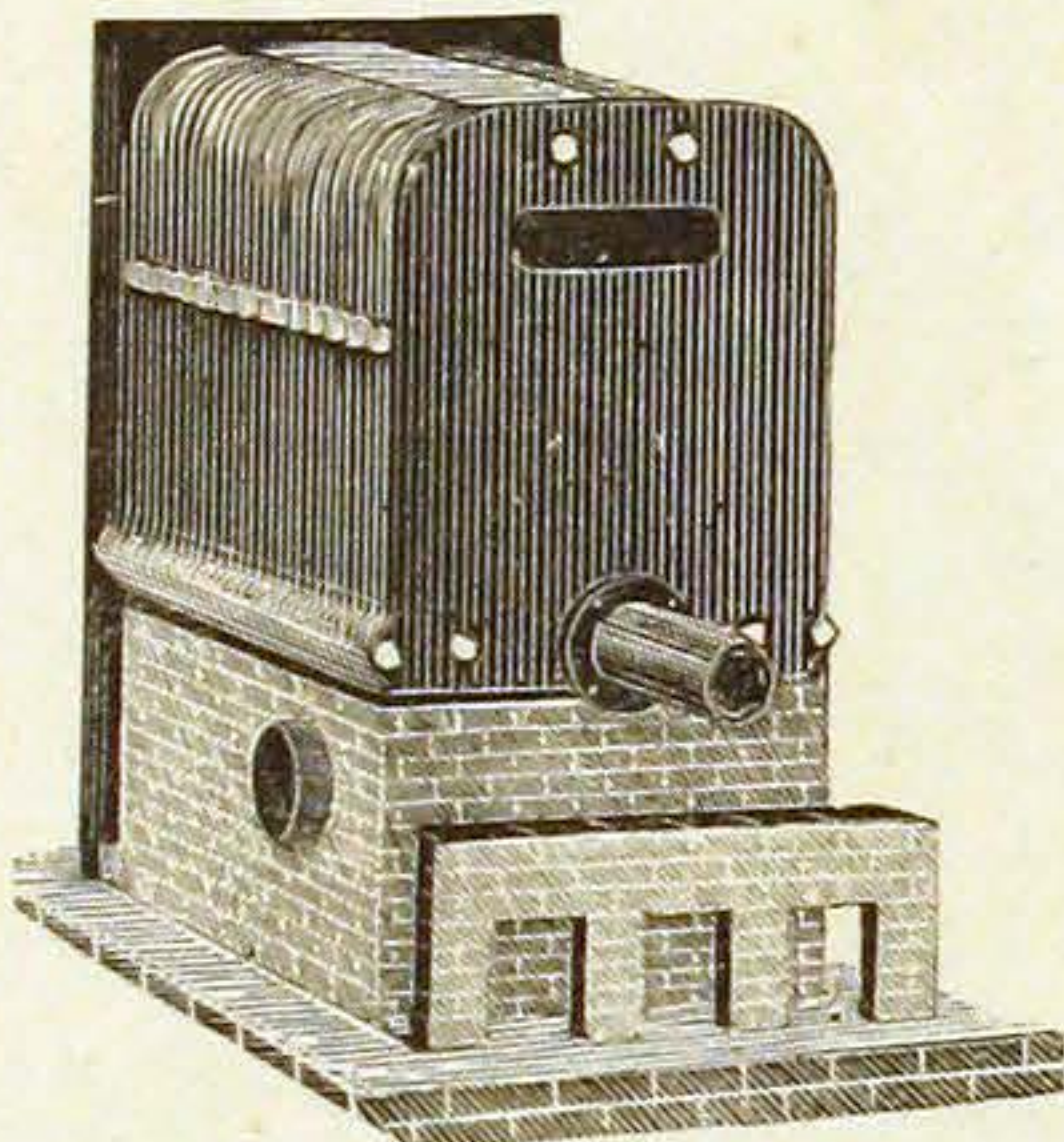
Sectional Views of Boilers.

Fig. 483.



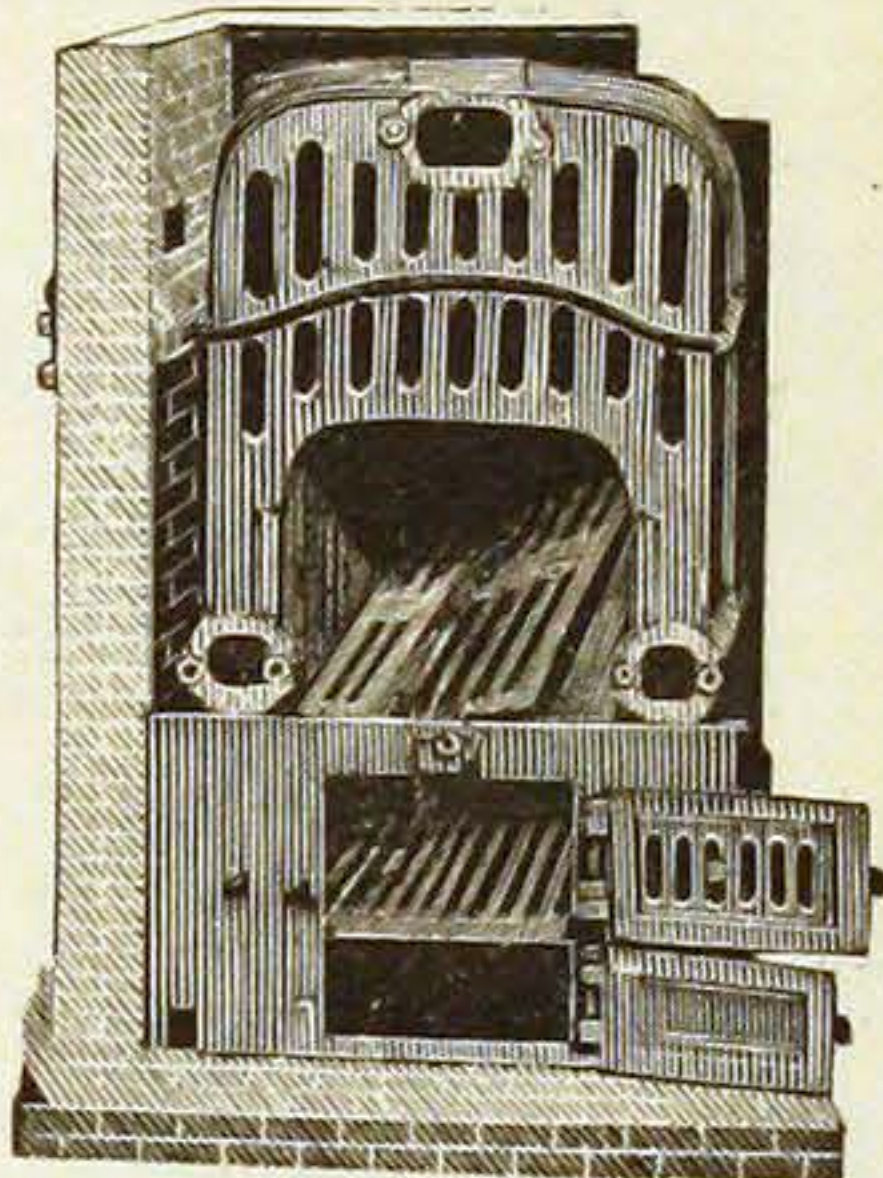
Front and Side View.

Fig. 484.



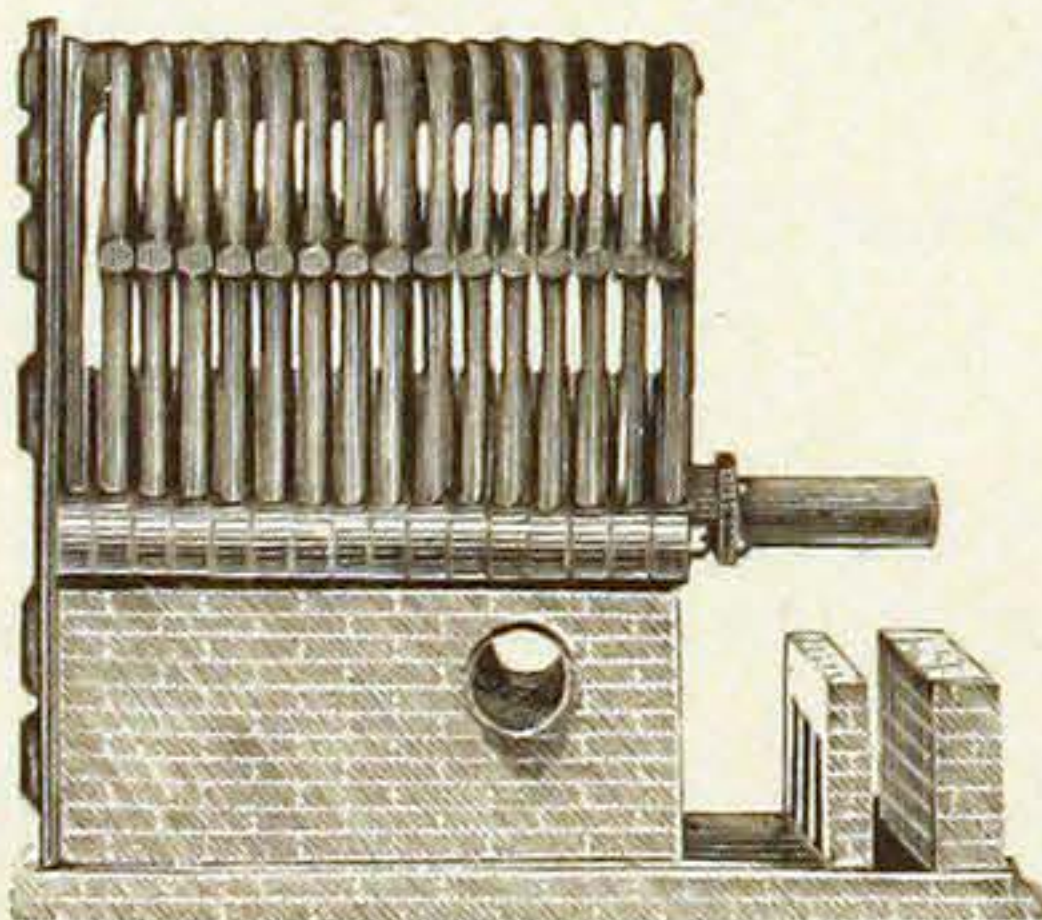
Back and Side View.

Fig. 485.



Front View.

Fig. 486.



Side View.

In presenting our Hot Water Boiler to the public, we can safely say, that, for power, economy, and ease of work, it is not equalled. Being made in the sectional form, it is easy to transport, simple in construction, and not liable to get out of repair; easily kept clean, and when repairs become necessary, any piece or section can be replaced, thus avoiding the necessity of putting in an entire new boiler—as is often the case.

All sizes capable of running (singly) from 100 feet to 5000 feet of pipe, kept constantly on hand.

CAPACITIES OF BOILERS.

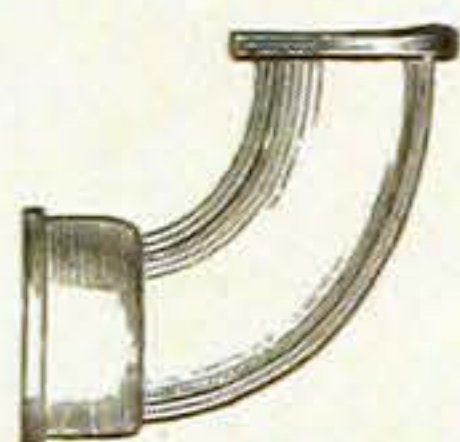
Small Boilers.		Large Boilers.	
No. of Sections.	Feet of 4 in. Pipe the Boiler is capable of running.	No. of Sections.	Feet of 4 in. Pipe the Boiler is capable of running.
6	500 to 800	8	2,000 to 2,500
8	1,200 " 1,500	10	2,500 " 3,500
10	1,500 " 2,000	12	3,000 " 4,000
12	2,000 " 2,500	14	3,500 " 4,500
14	2,500 " 3,000	16	4,000 " 5,000



## GREEN-HOUSE FITTINGS.

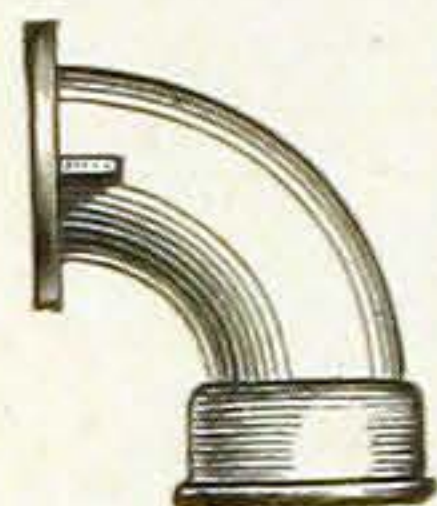
## Quarter Bends.

Fig. 487.



Hub and Spigot.

Fig. 488.



Hub and Flange.

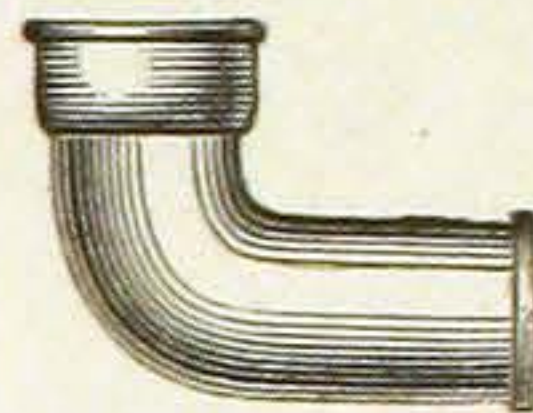
Fig. 489.



Double Hub.

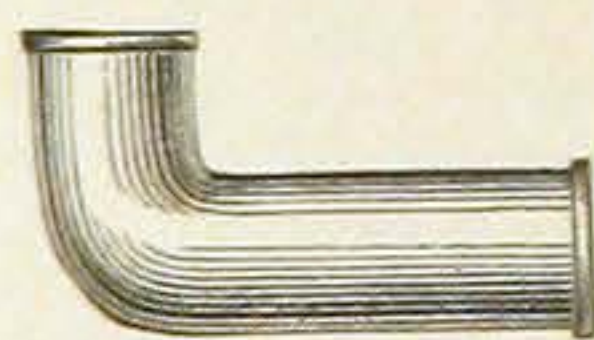
## Long Bends.

Fig. 490.



Hub and Spigot.

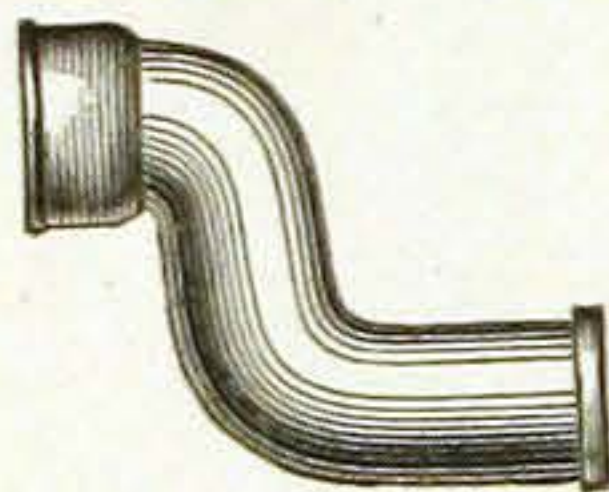
Fig. 491.



Double Spigot.

## Offset.

Fig. 492.



Hub and Spigot.

## T.

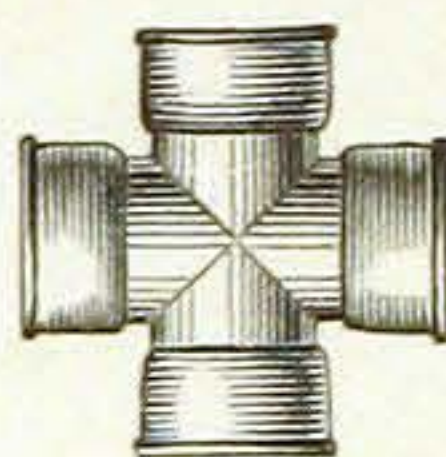
Fig. 493.



Hub.

## Cross.

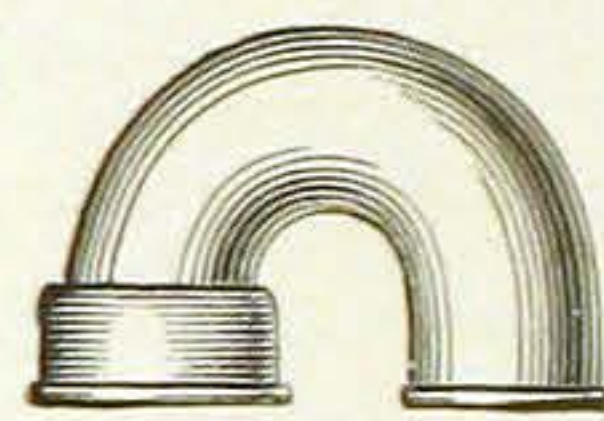
Fig. 494.



Hub.

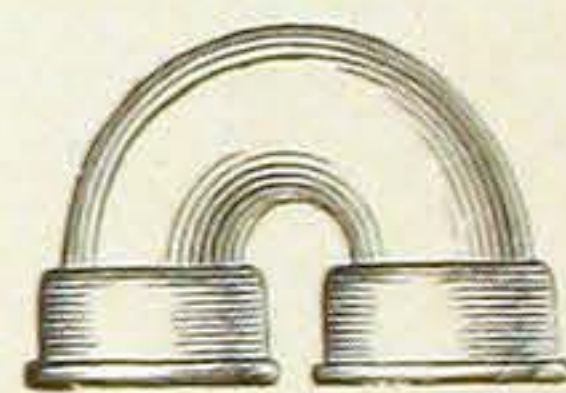
## Return Bends.

Fig. 495.



Hub and Spigot.

Fig. 496.



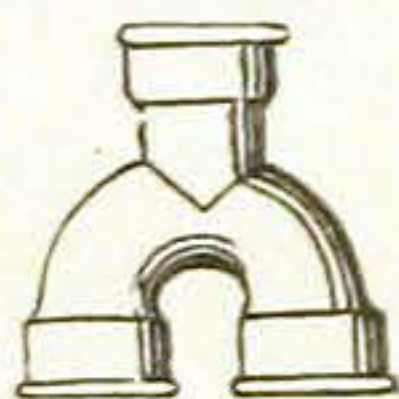
Double Hub.

Fig. 497.



With Expansion.

Fig. 498.



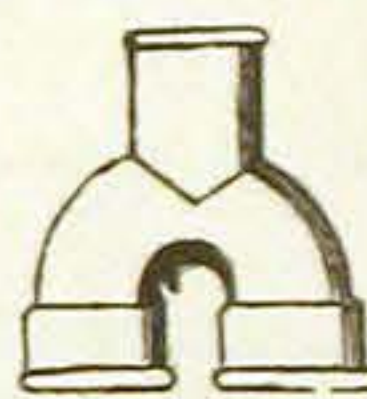
With Back Outlets.

## Return Bends.

Fig. 499.



Fig. 500.

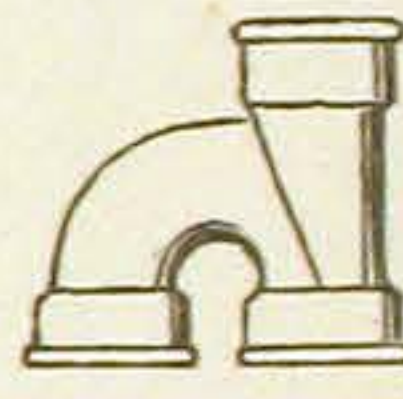


With Expansion. Corner Outlet.

Fig. 501.

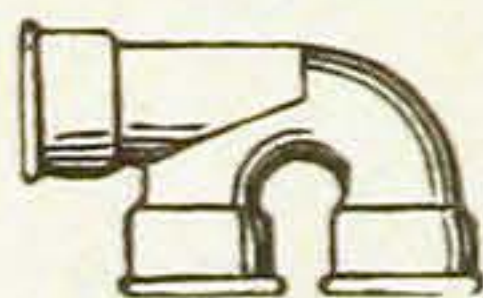


Fig. 502.



## Double Elbows.

Fig. 503.



Hubs all around. With Sm'l Outlet.

Fig. 504.

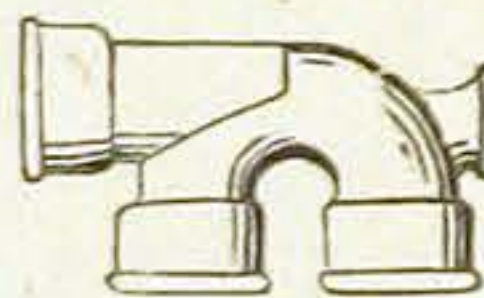
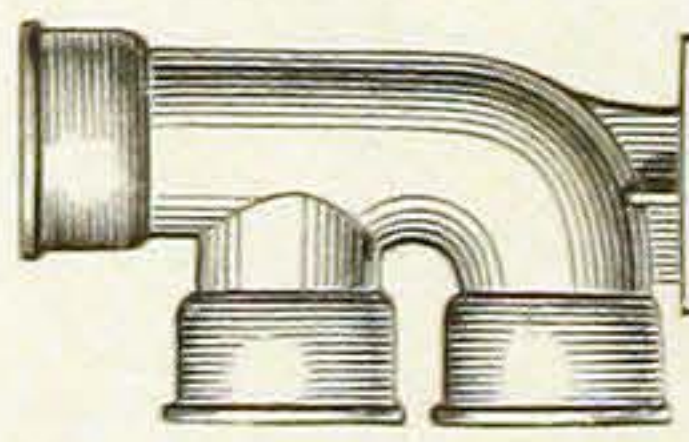


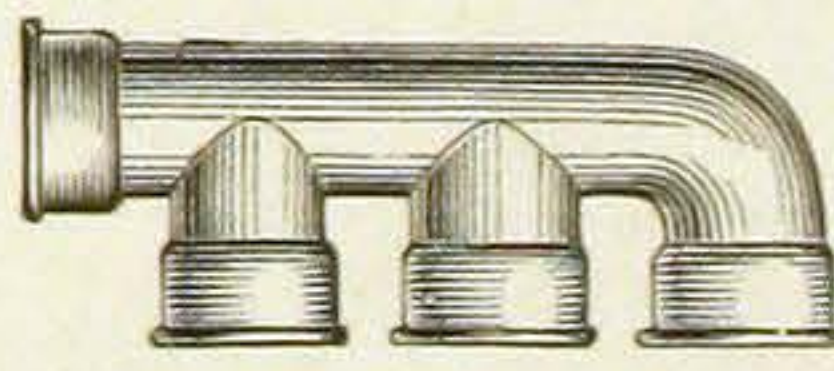
Fig. 505.



With Flange.

## Triple Elbow.

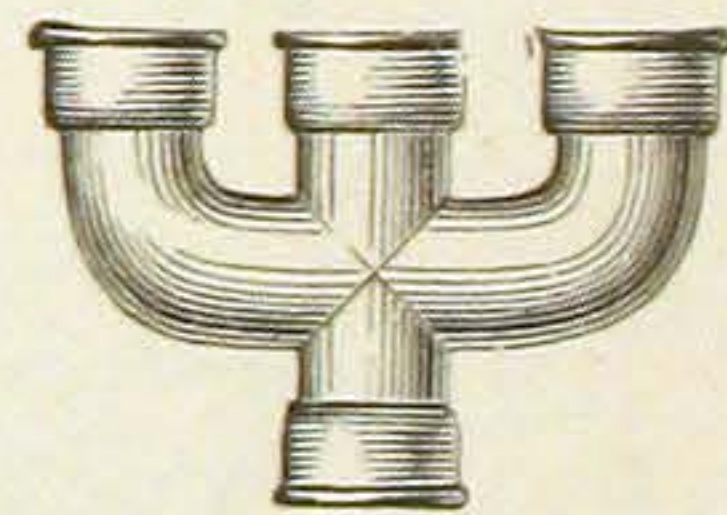
Fig. 506.



Hub Outlets.

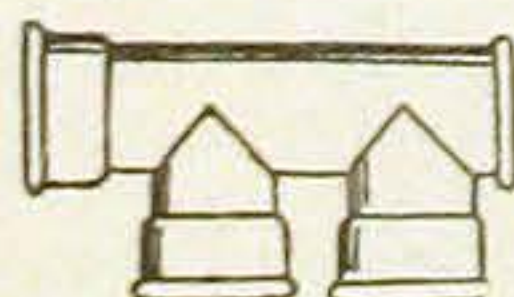
## 3 Way Branch.

Fig. 507.



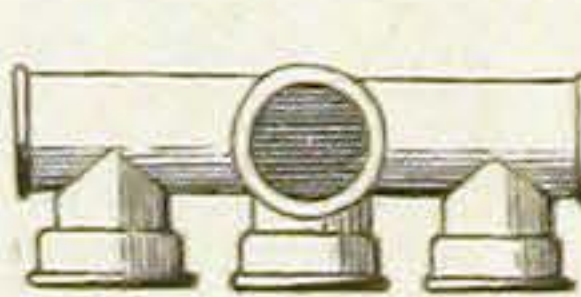
## Double T.

Fig. 508.



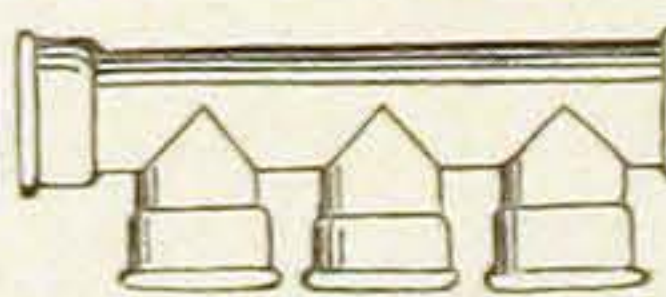
## T Tee.

Fig. 508½.



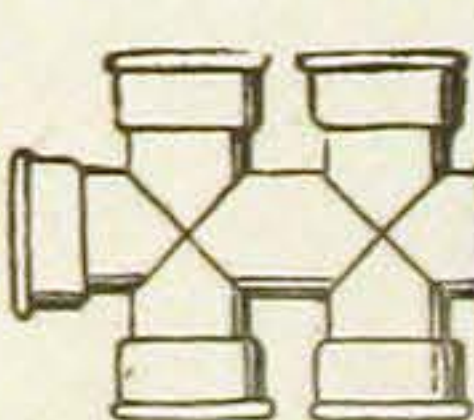
## Triple T.

Fig. 509.



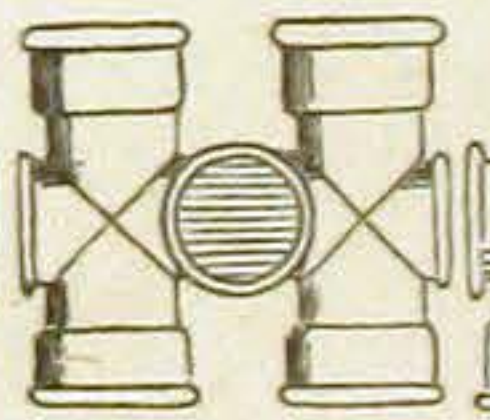
## Double Cross.

Fig. 510.



## Comb. Cross.

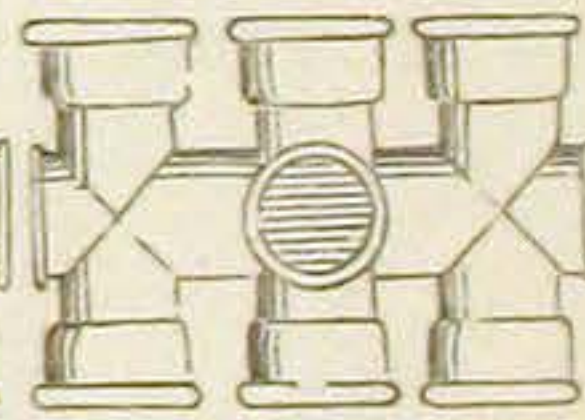
Fig. 511.



With Expansion.

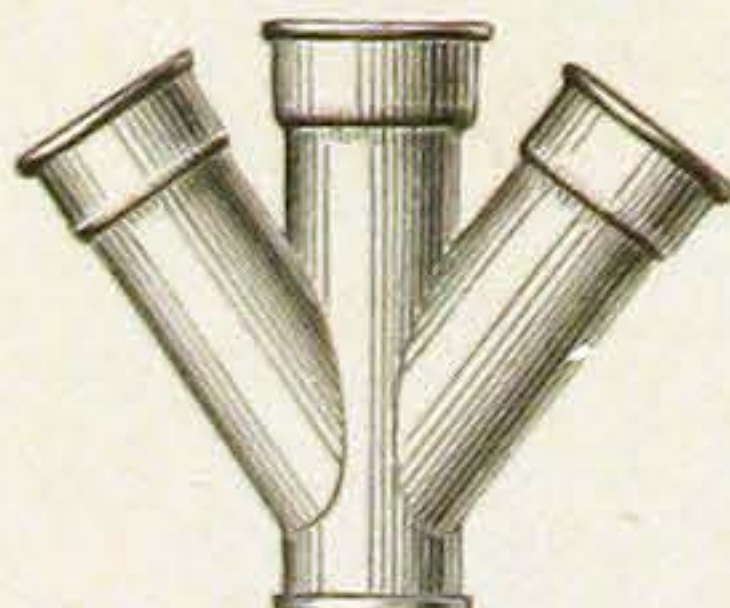
## Triple Cross.

Fig. 513.



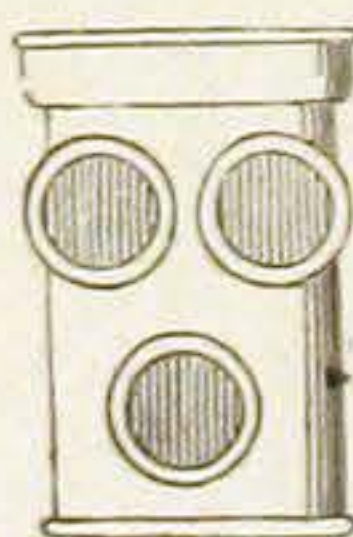
## Double Y Branch.

Fig. 514.



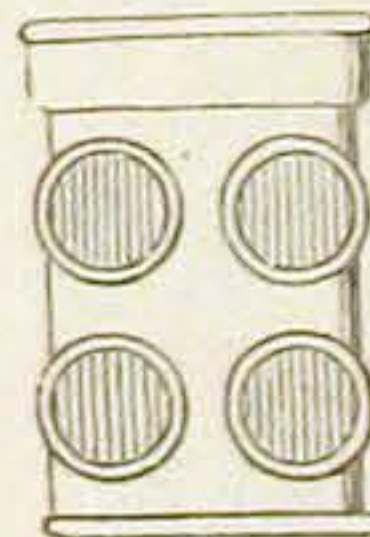
## Headers.

Fig. 515.



3 Way.

Fig. 516.

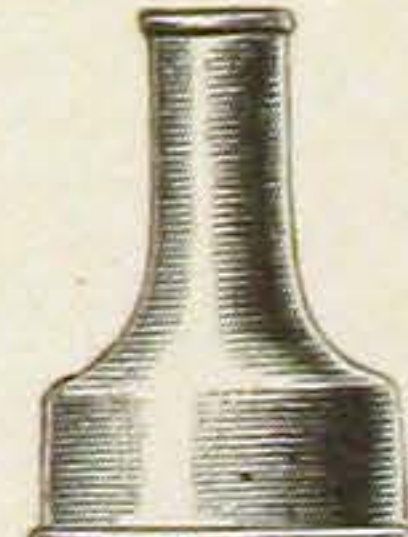


4 Way.

With Back Outlets.

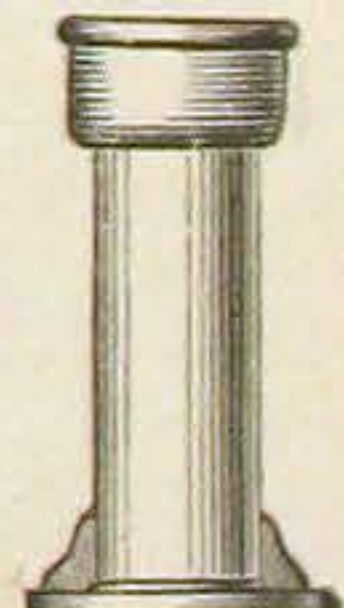
## Reducers.

Fig. 517.



## Connecting Piece.

Fig. 518.



With Flange.

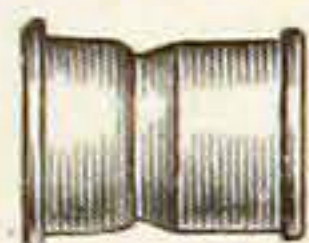


# GREEN-HOUSE FITTINGS.

Straight Sleeve.  
Fig. 519.



Double Hub.  
Fig. 520.



Plug.  
Fig. 521.



Pipe Chairs.  
Fig. 522.



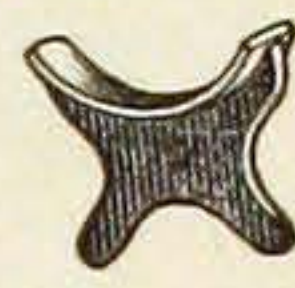
Bottom.

Pipe Chairs.  
Fig. 523.



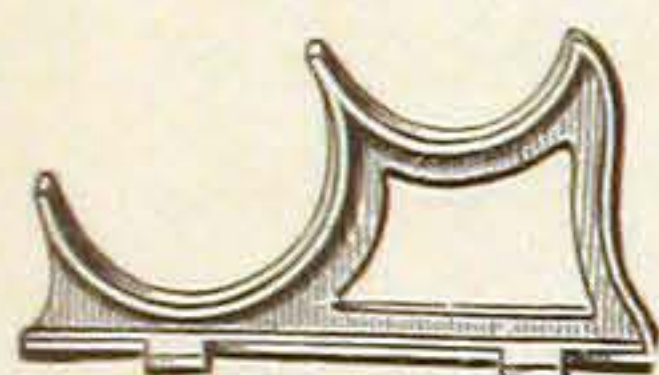
Center.

Pipe Chairs.  
Fig. 524.



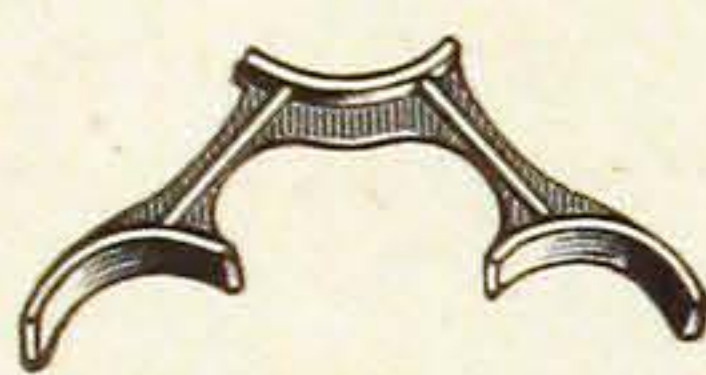
Small.

Pipe Chairs.  
Fig. 525.



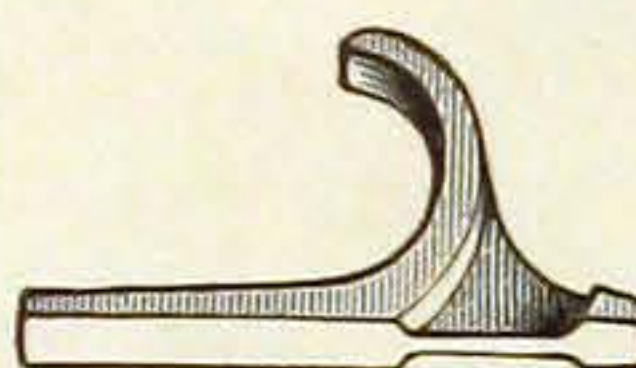
Double.

Pipe Chairs.  
Fig. 526.



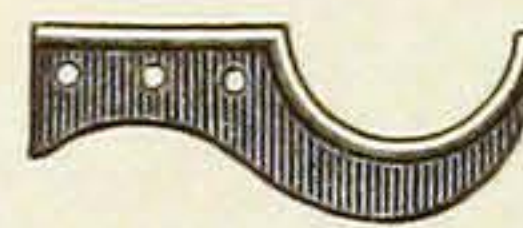
Triple.

Pipe Hooks.  
Fig. 527.



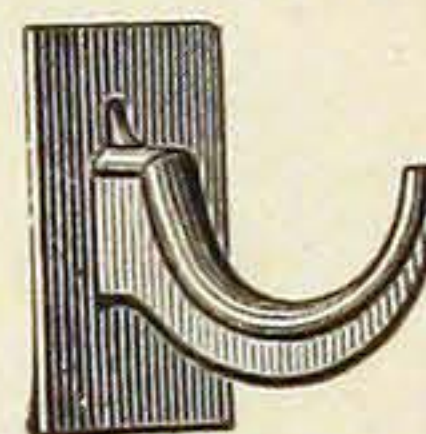
To Drive.

Pipe Hooks.  
Fig. 528.



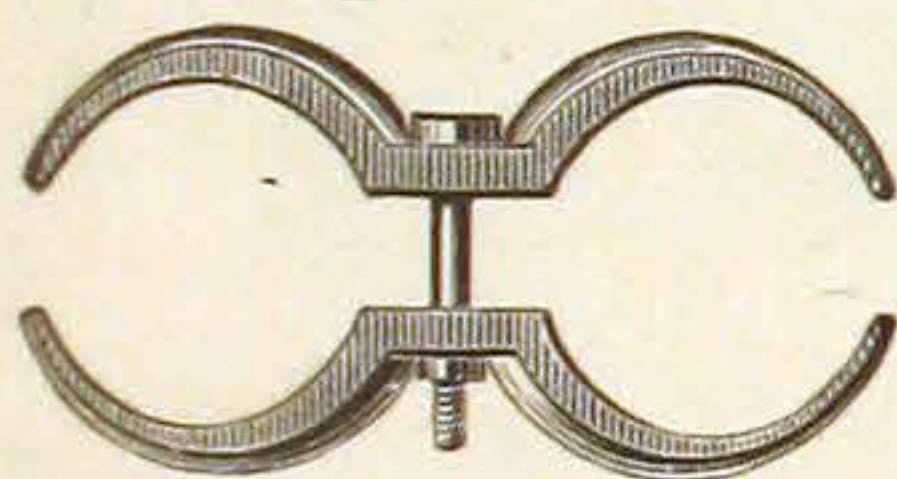
To Screw.

Pipe Hooks.  
Fig. 529.



Flanged.

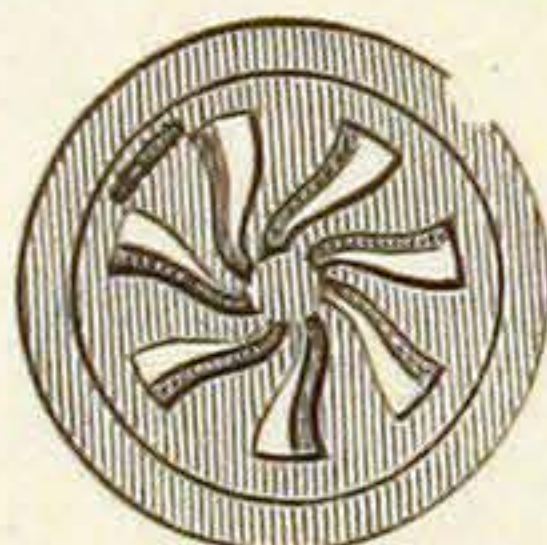
Pipe Clamp.  
Fig. 530.



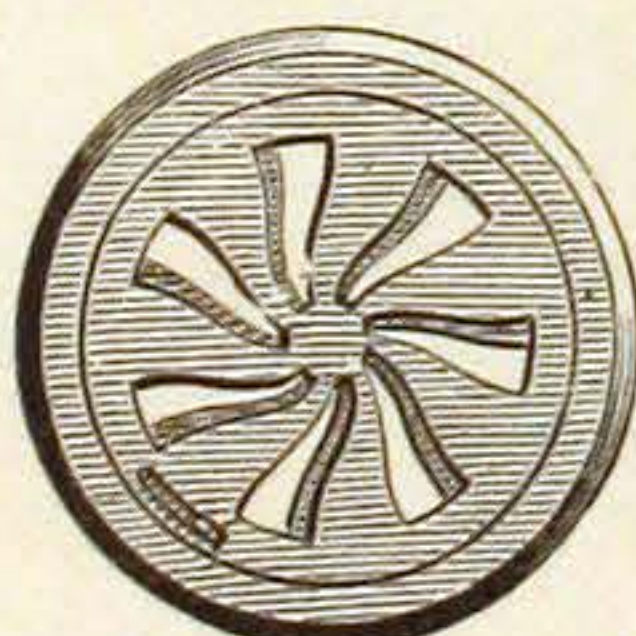
Pipe Rolls.  
Fig. 531.



Registers.  
Fig. 535.

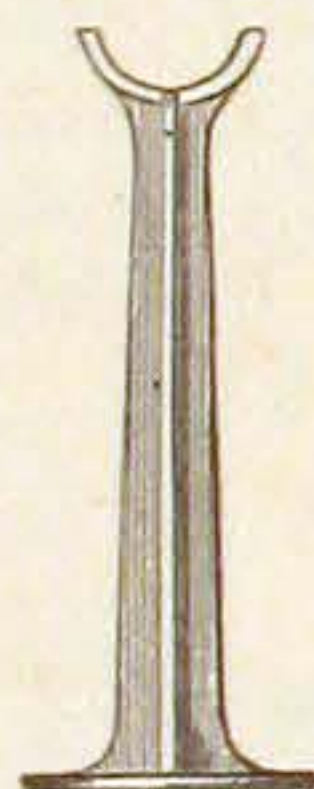


Small.

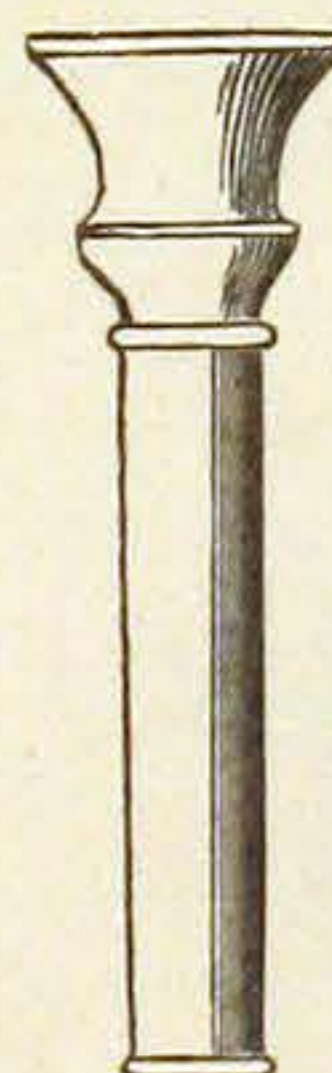


Large.

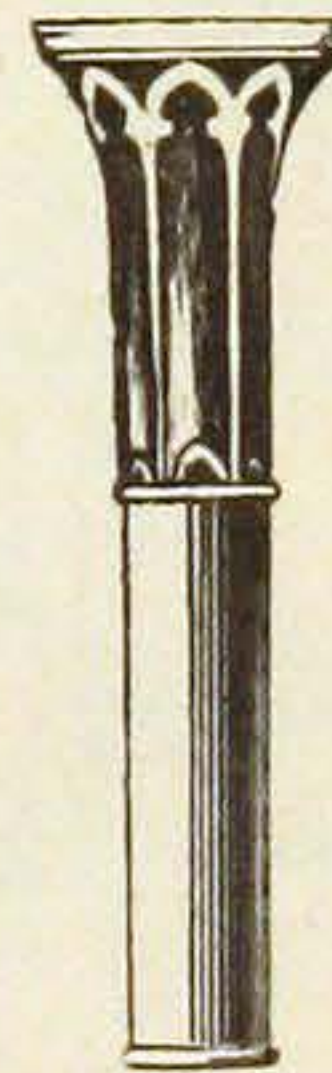
Pipe Stand.  
Fig. 534.



Stand Pipes.  
Fig. 536.

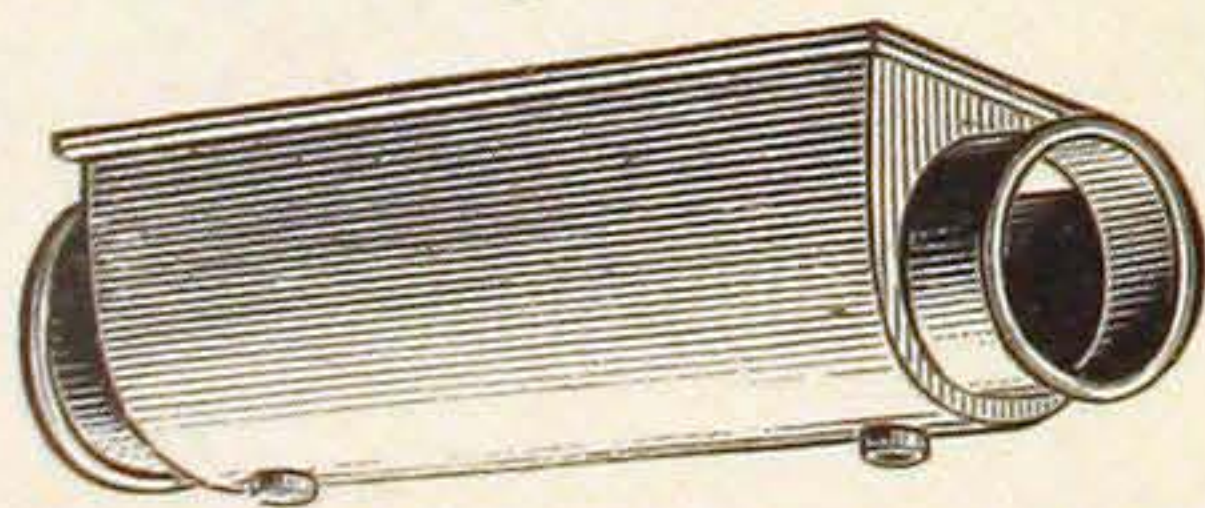


Stand Pipes.  
Fig. 537.

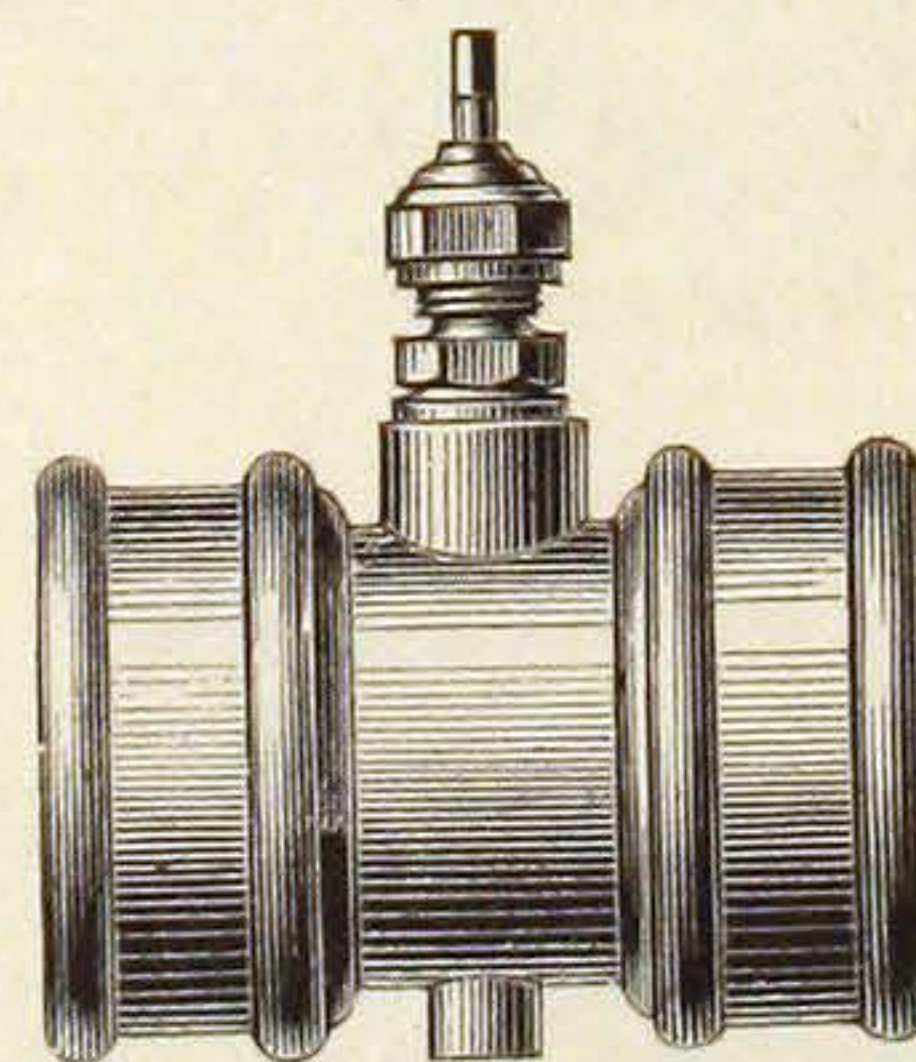


With Registers.  
Stop Valve.  
Fig. 540.

Vapor Pan.  
Fig. 538.



Expansion Tank.  
Fig. 539.



Floor Bushing.  
Fig. 540.

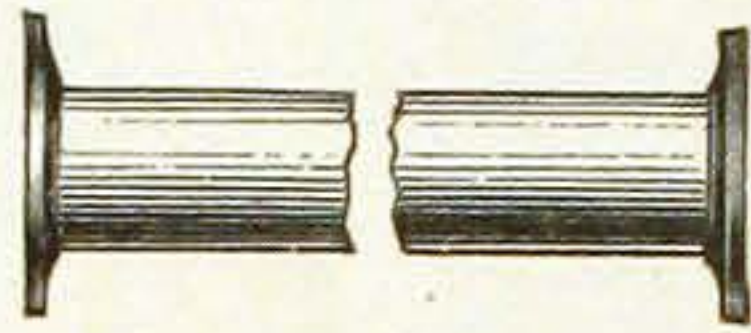


For all Sizes of Pipe.



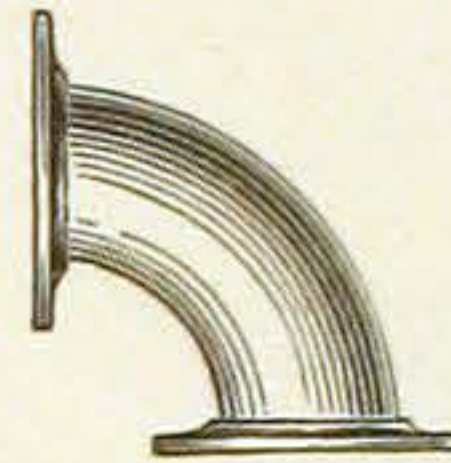
## CAST IRON FLANGED PIPE AND FITTINGS.

Fig. 541.



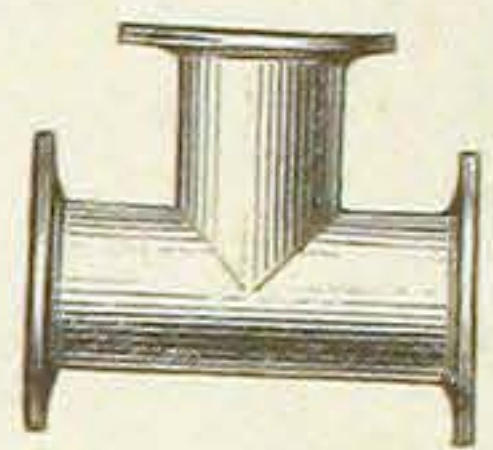
Pipe.

Fig. 542.



Elbow.

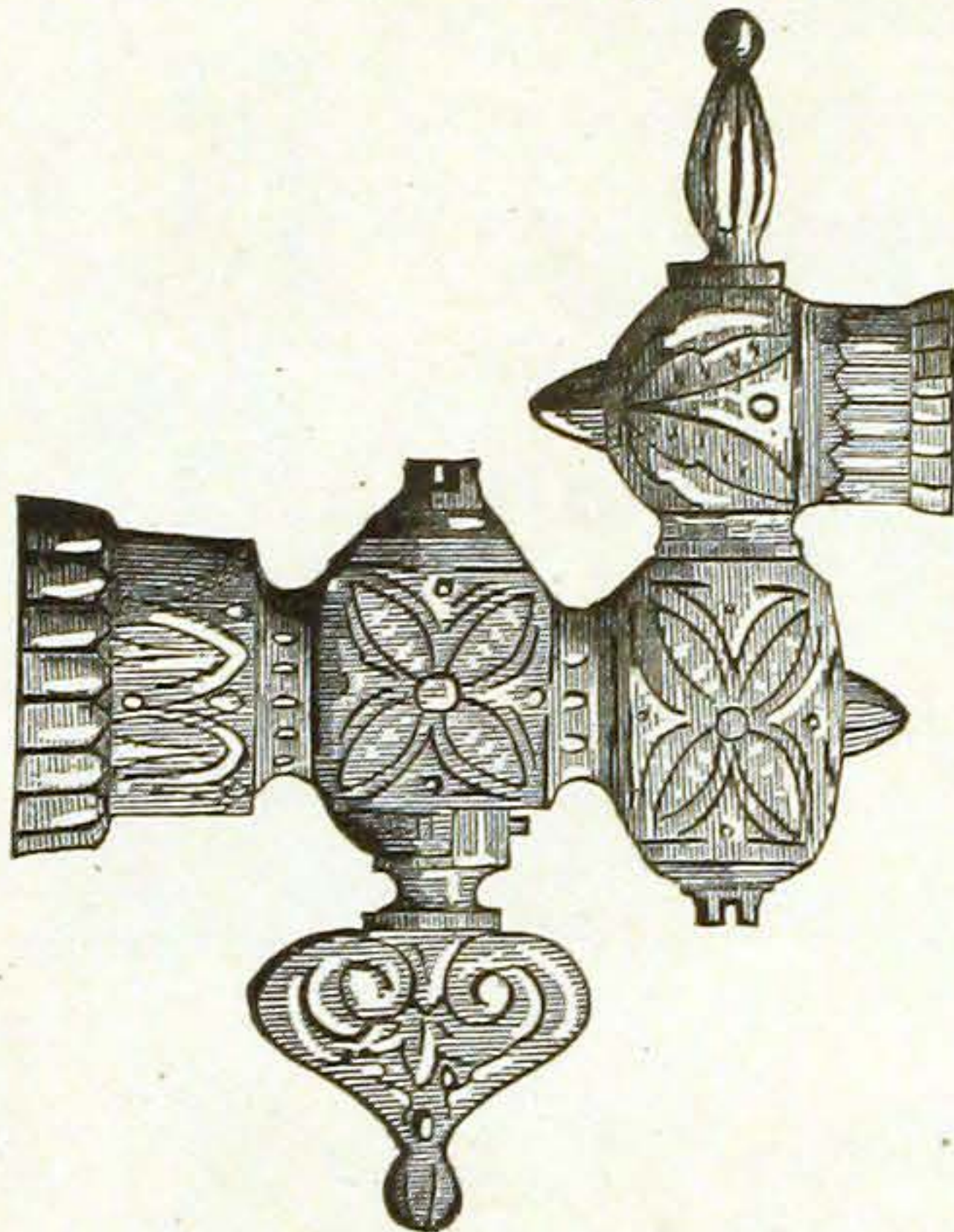
Fig. 543.



Tee.

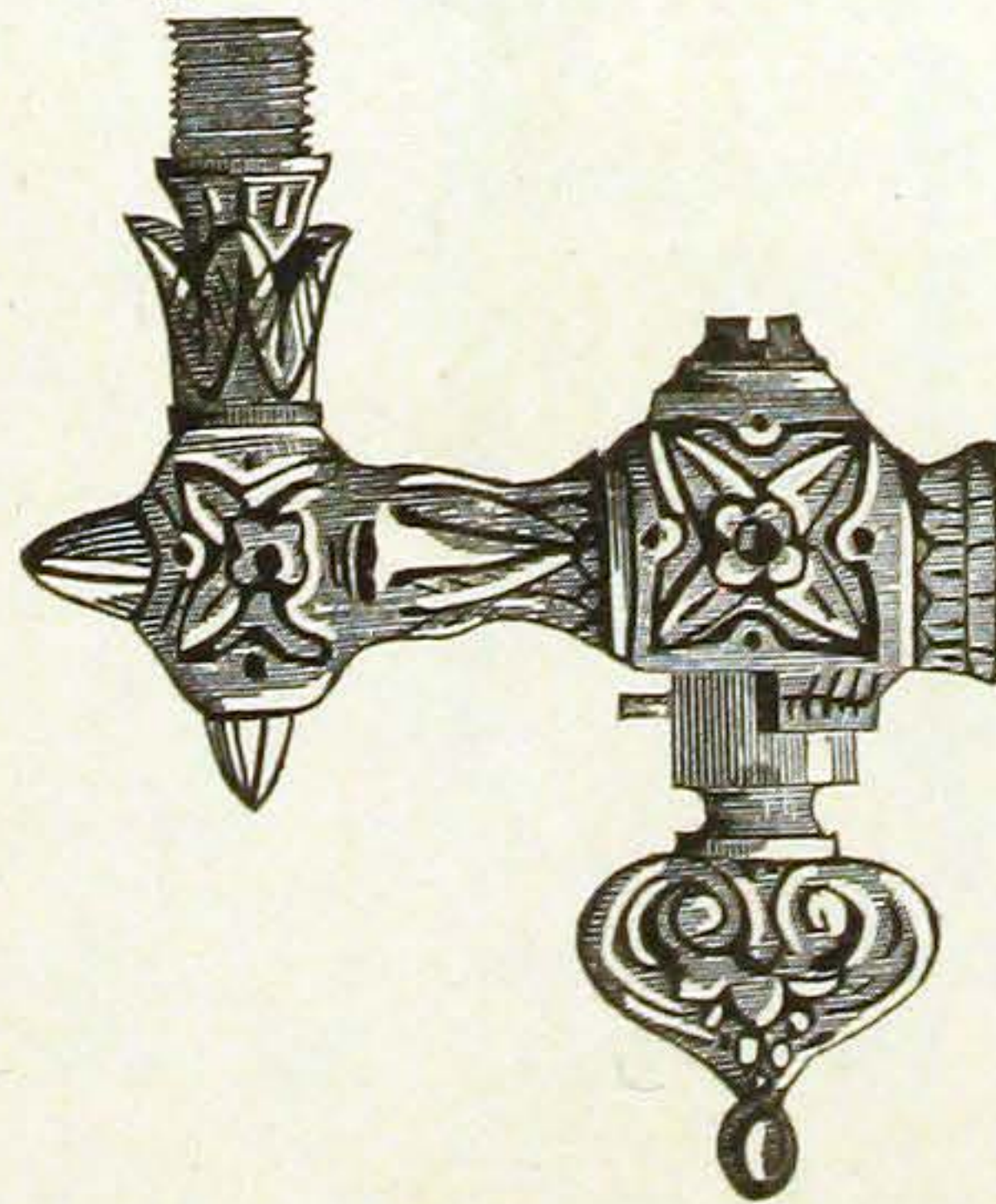
## GAS FIXTURE FITTINGS.

Fig. 544.



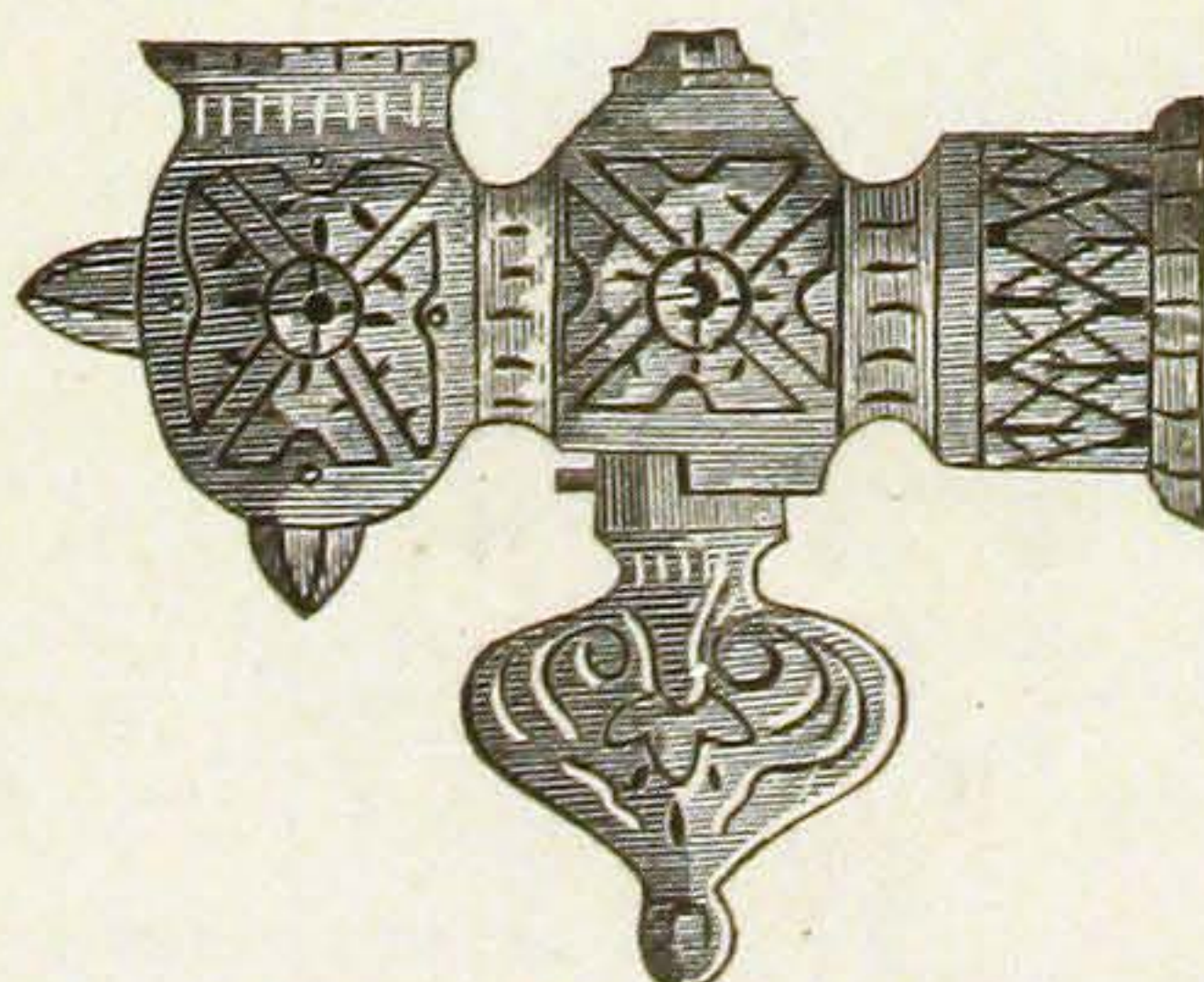
Bracket Cock.

Fig. 547.



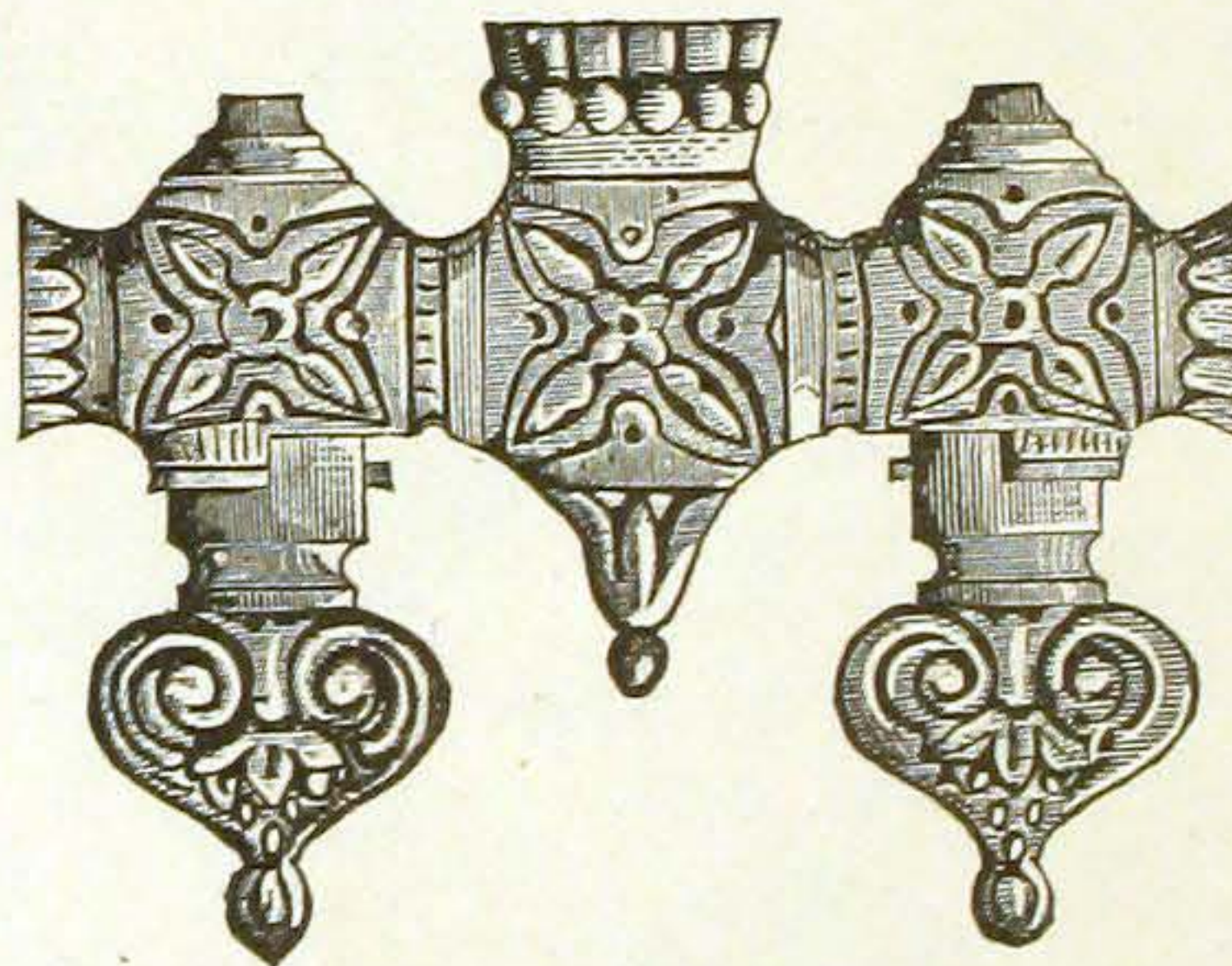
Elbow Burner Cock. Universal Swing.

Fig. 550.



Elbow Pendant Cock.

Fig. 545.



Two-Light Pendant Cock.

Fig. 548.

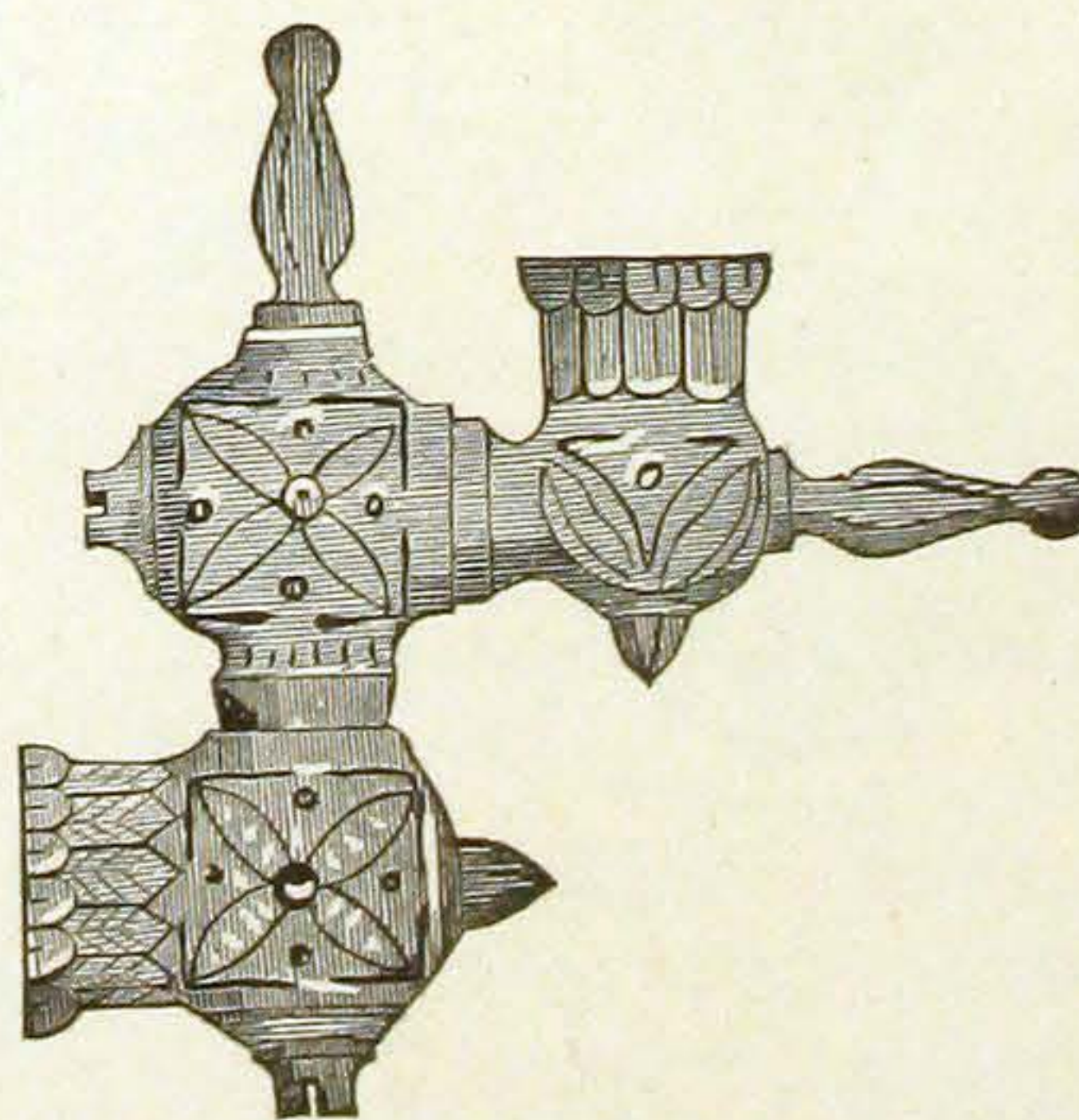
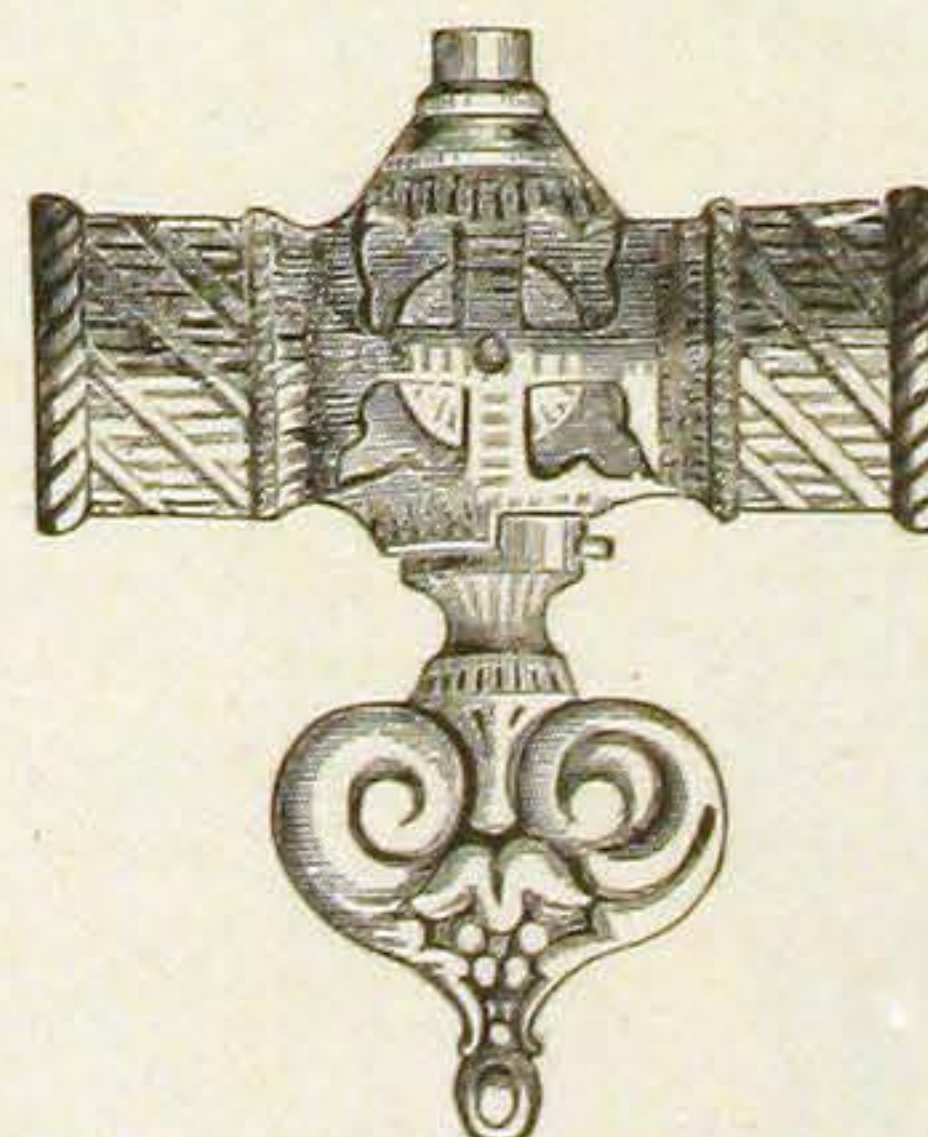
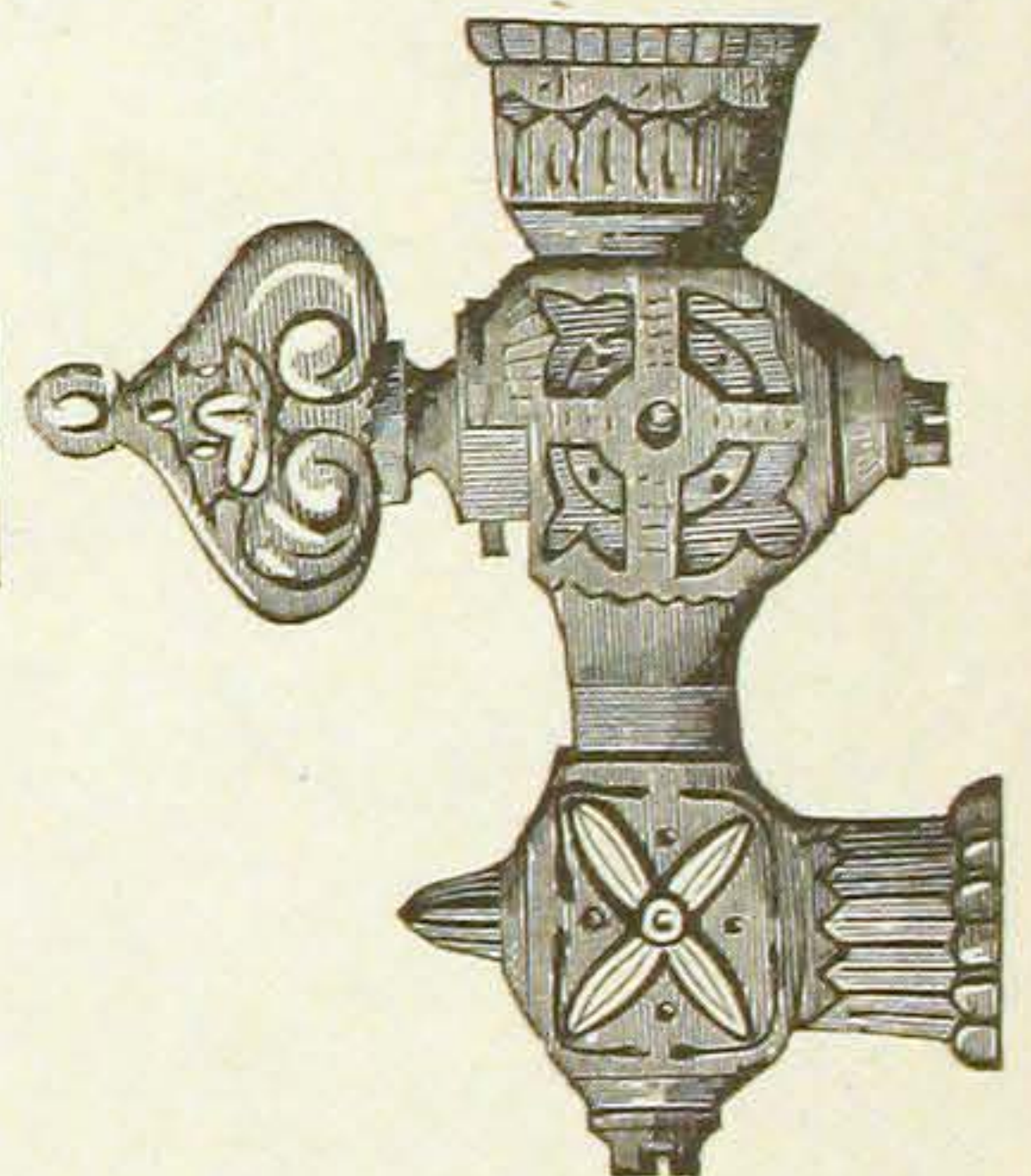


Fig. 551.



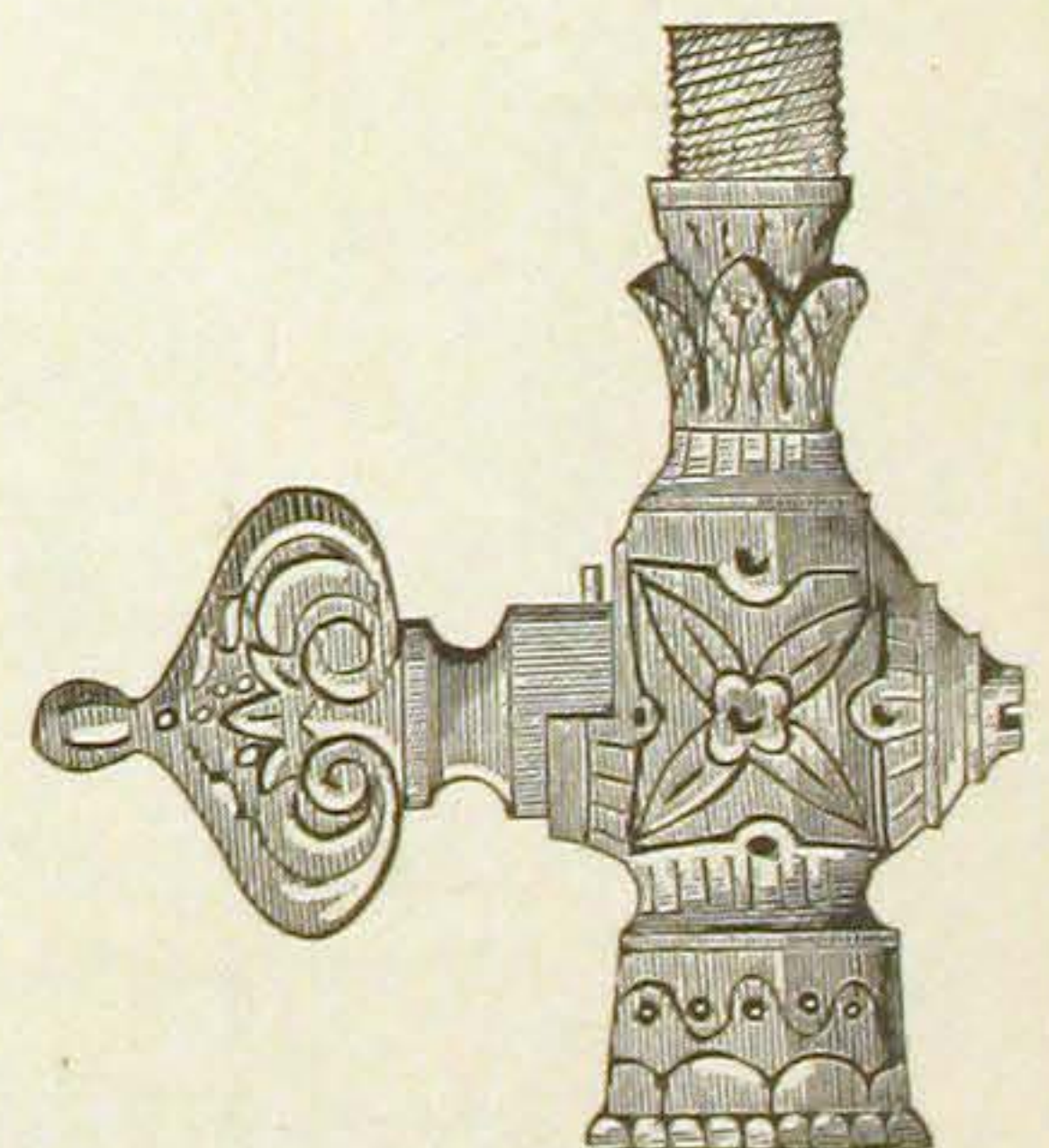
Straight Cock.

Fig. 546.



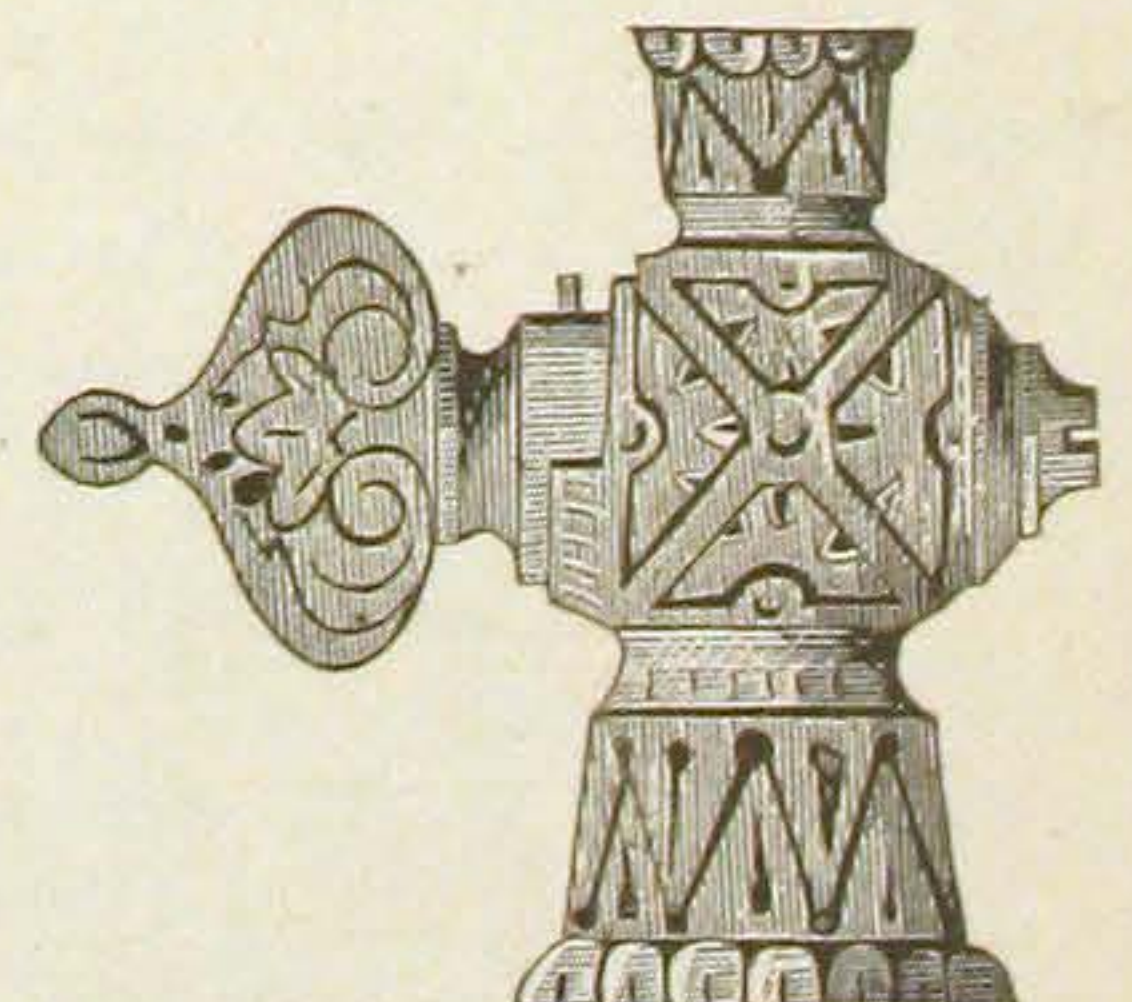
Revolving Cock.

Fig. 549.



Pillar Cock.

Fig. 552.

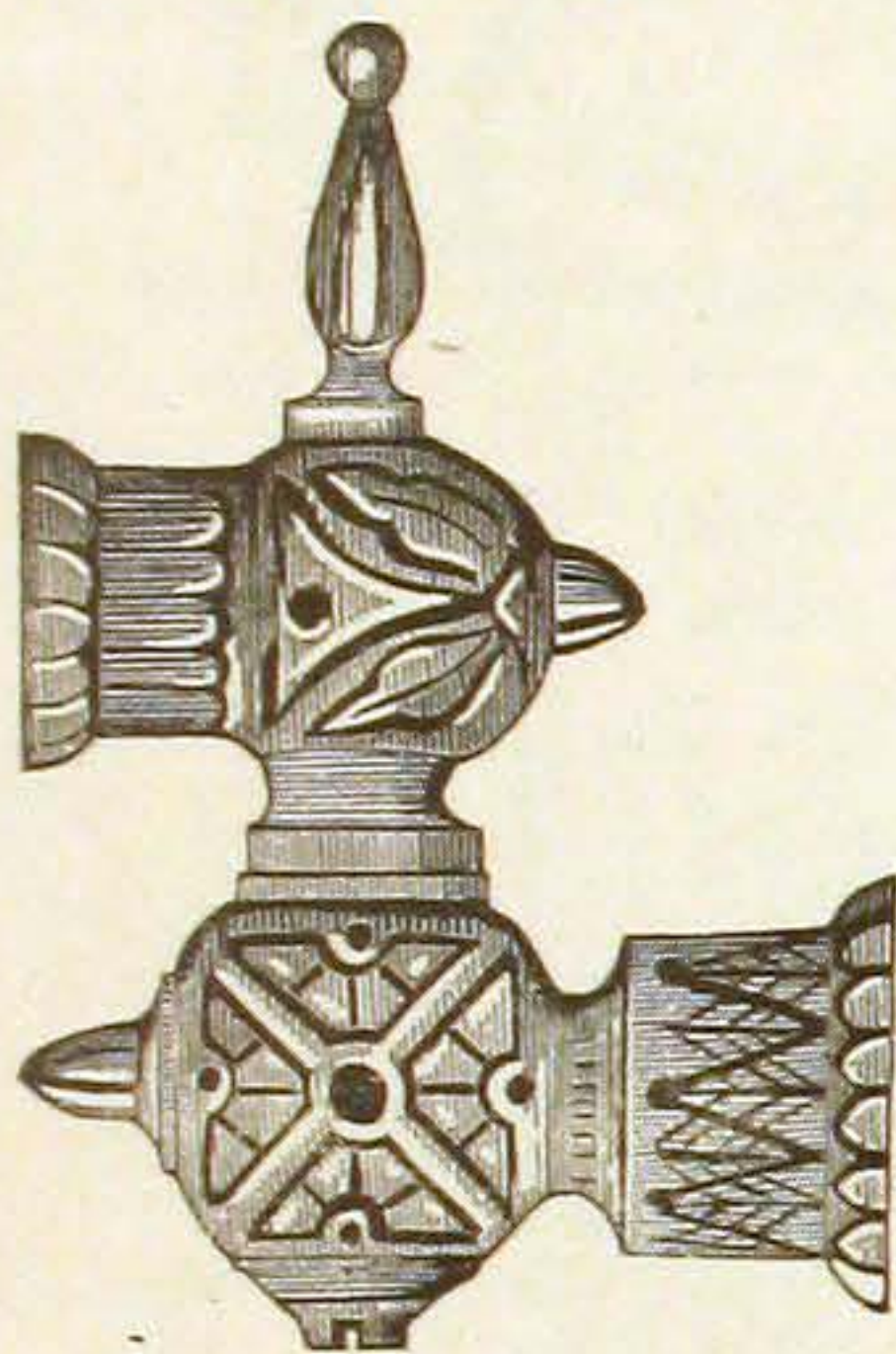


Street Lamp Cock.



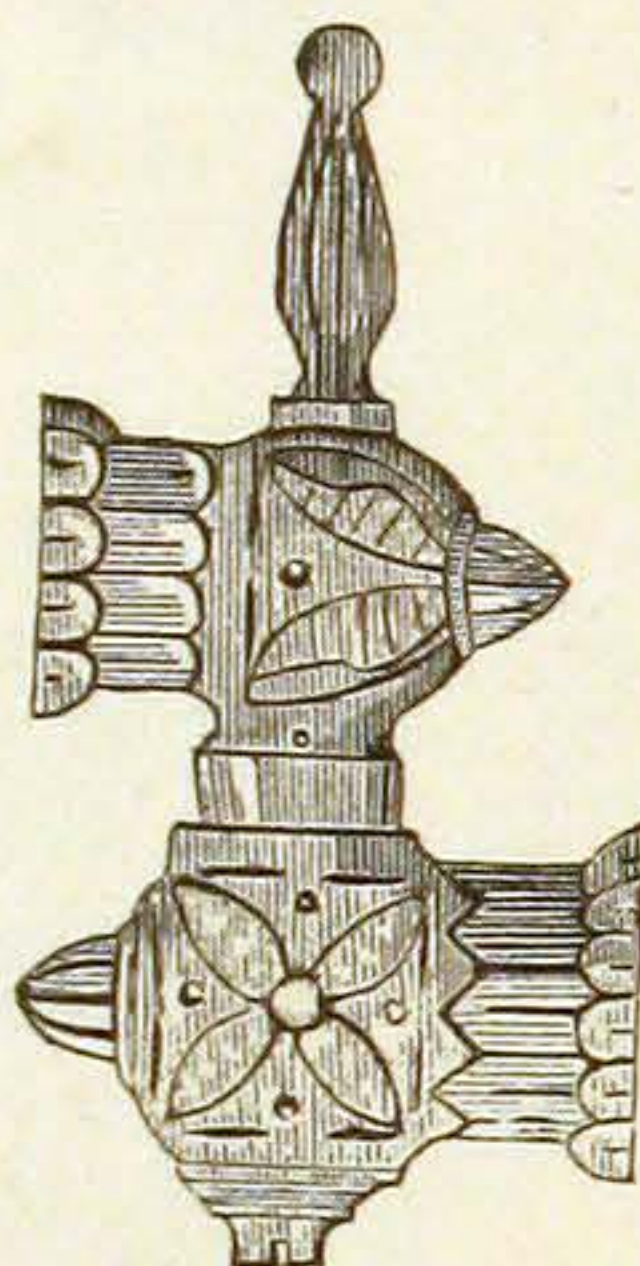
# GAS FIXTURE FITTINGS.

**Fig. 553.**



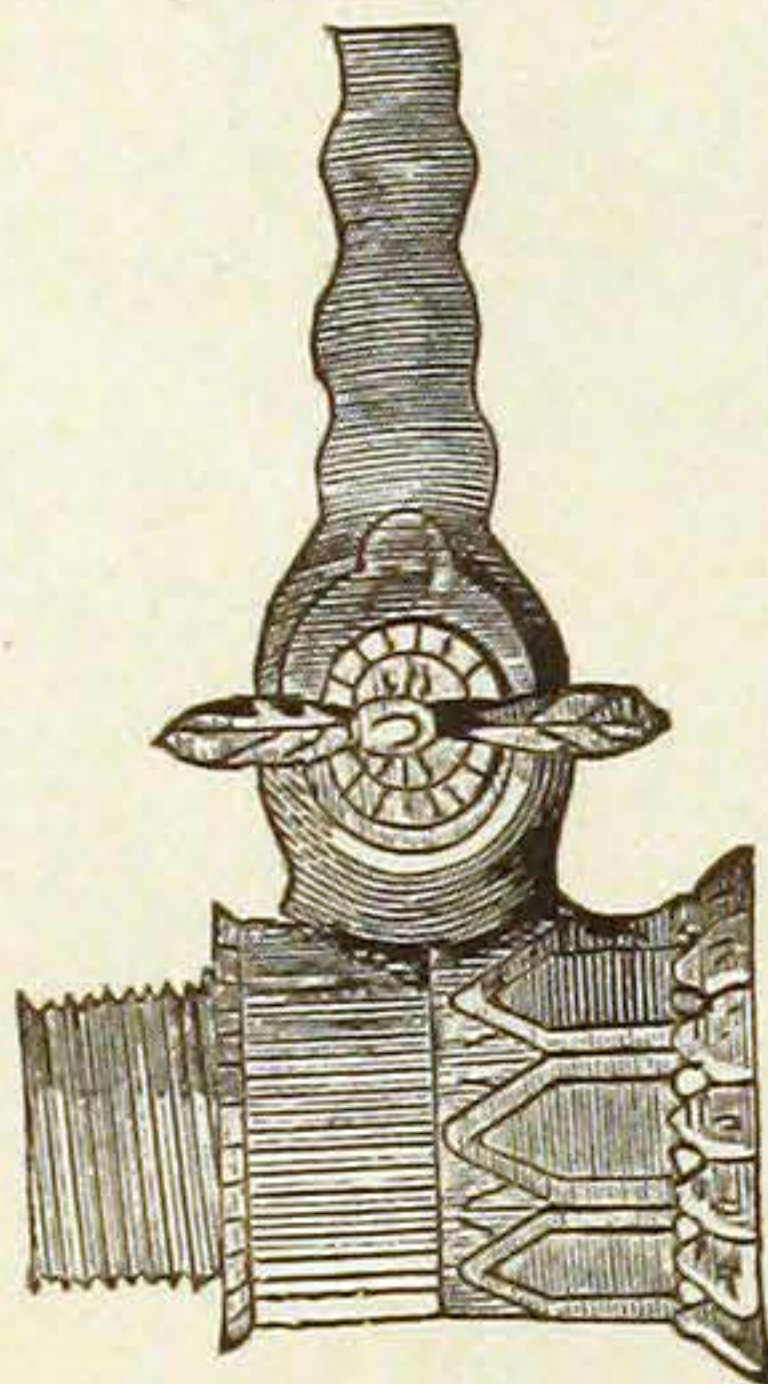
Middle Swing.

**Fig. 554.**



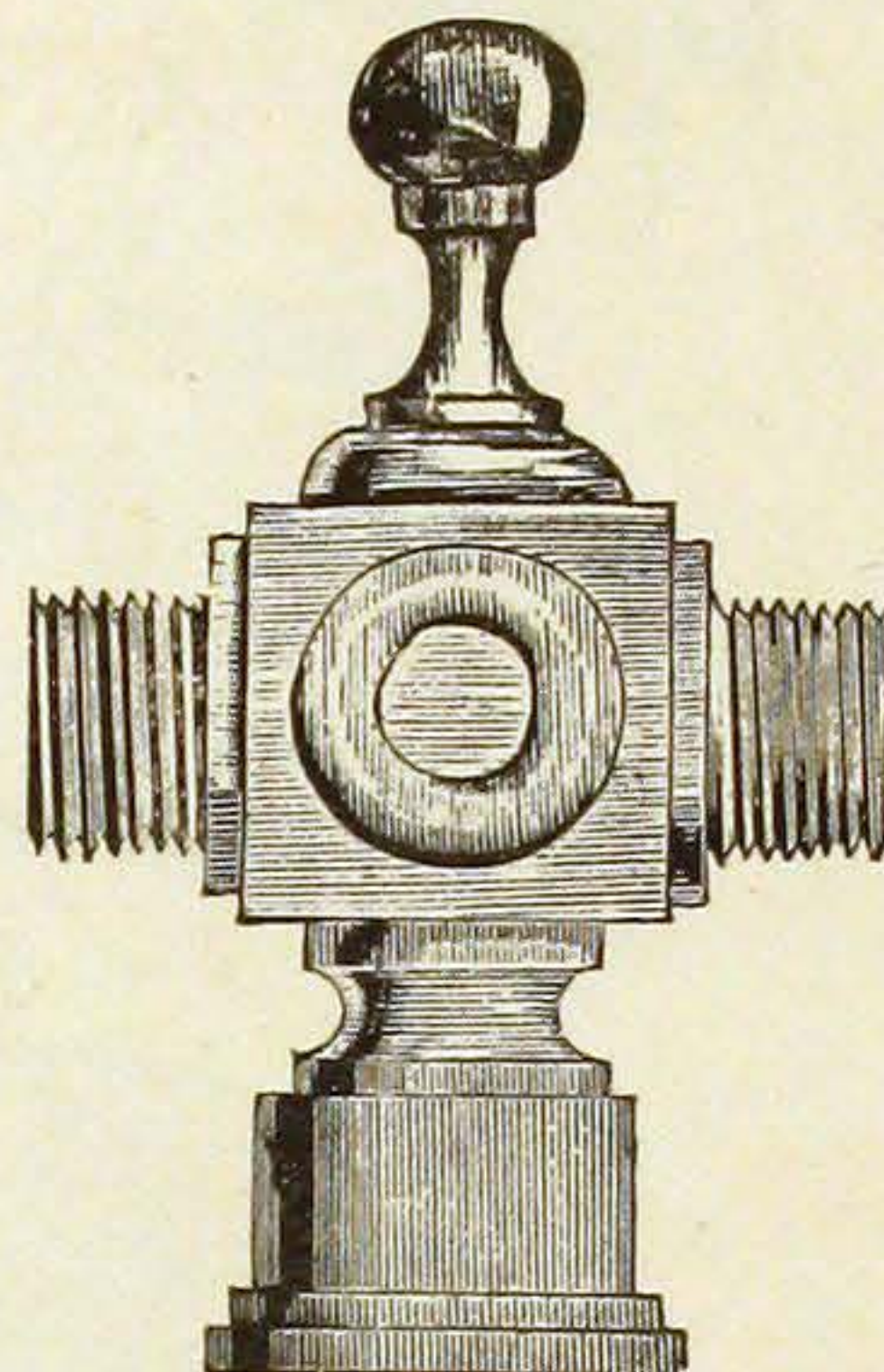
Top Swing.

**Fig. 555.**



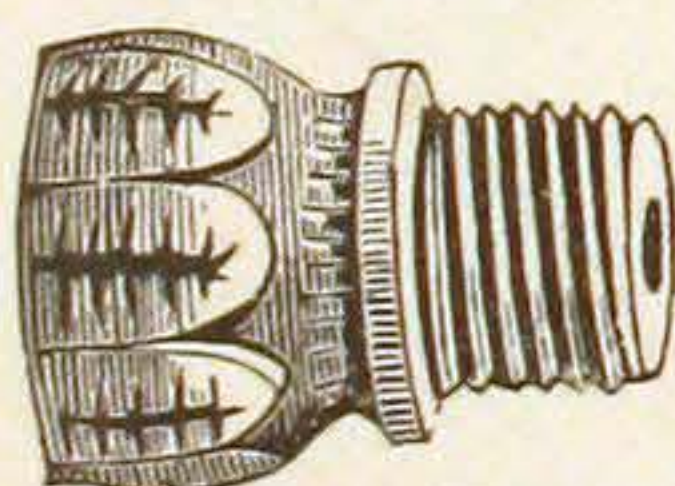
Independent Cock.

**Fig. 556.**



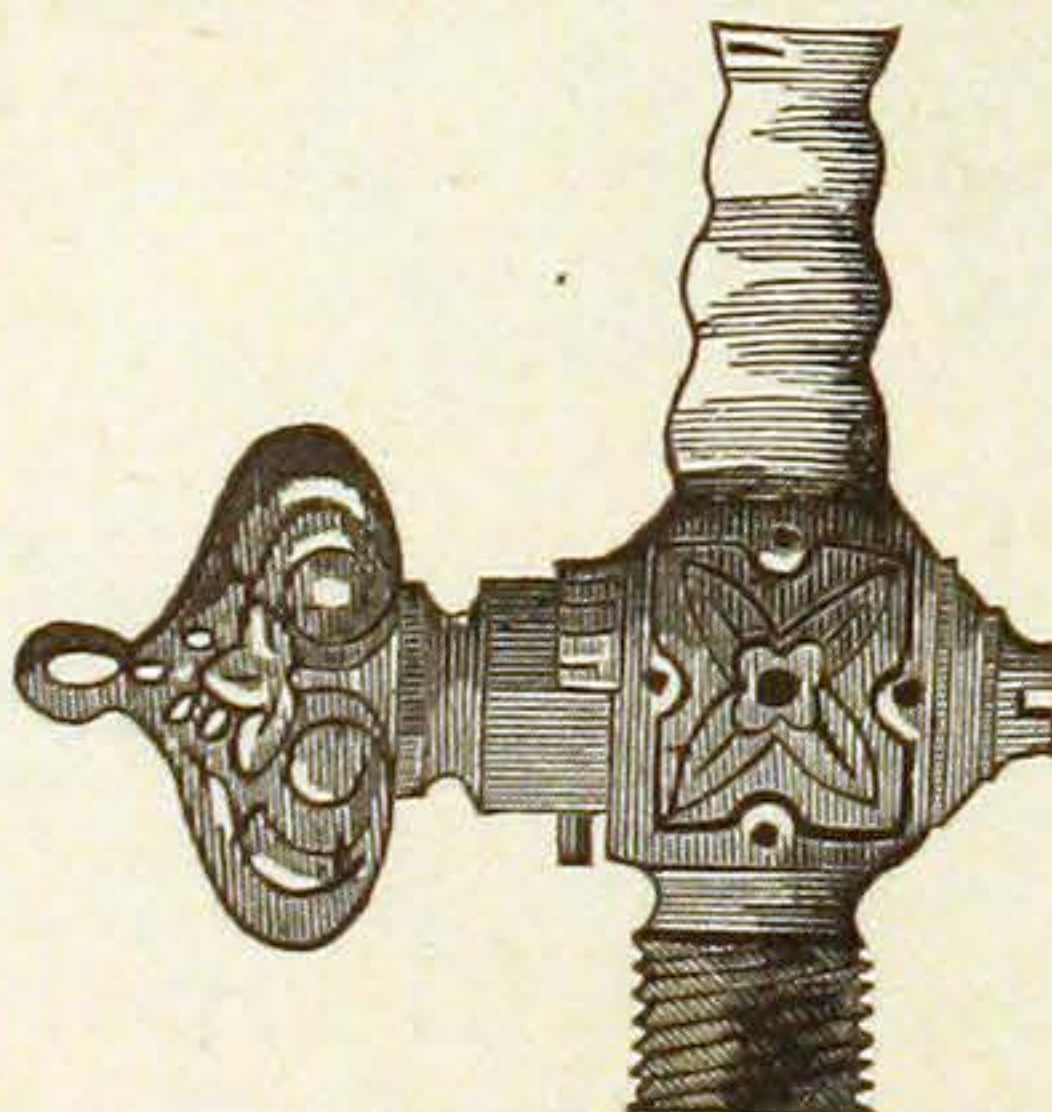
Two-Light Pillar Body.

**Fig. 557.**



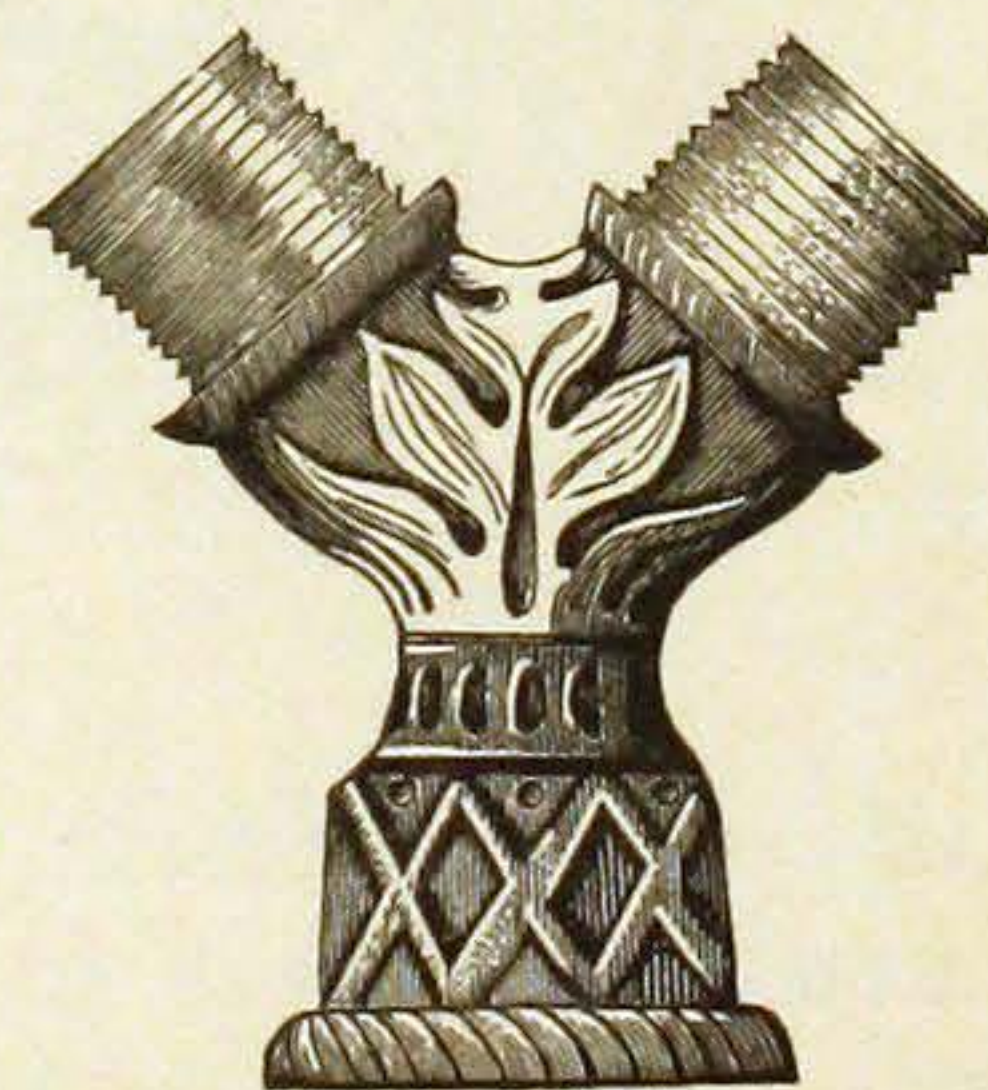
Straight Nozzle.

**Fig. 558.**



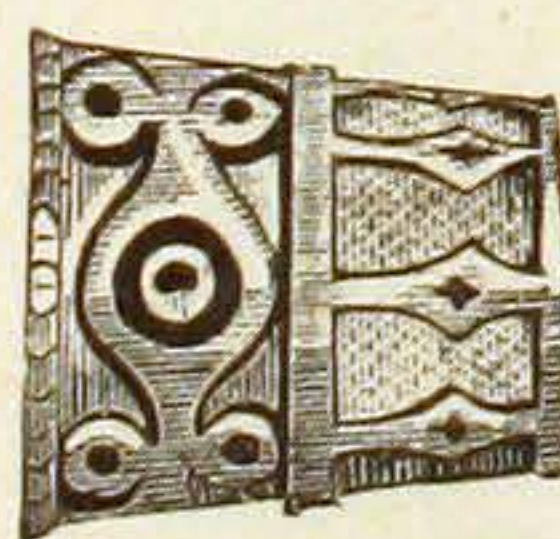
Hose Cock.

**Fig. 559.**



Two-Light Bracket Body.

**Fig. 561.**



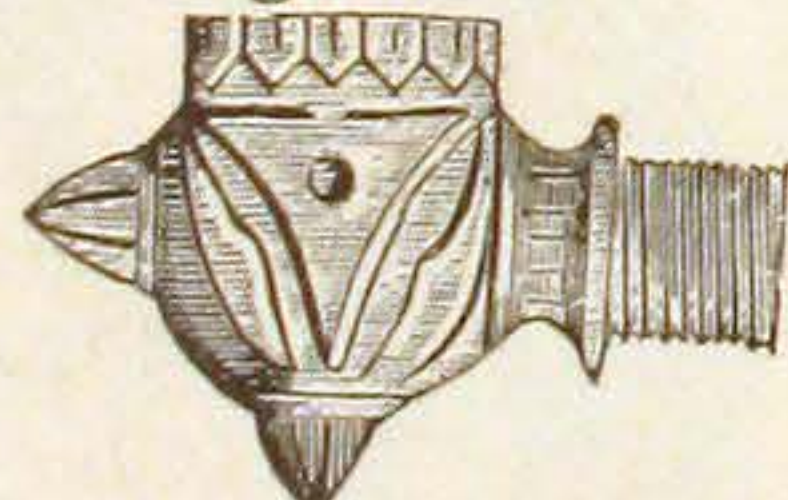
Stiff Joint.

**Fig. 562.**



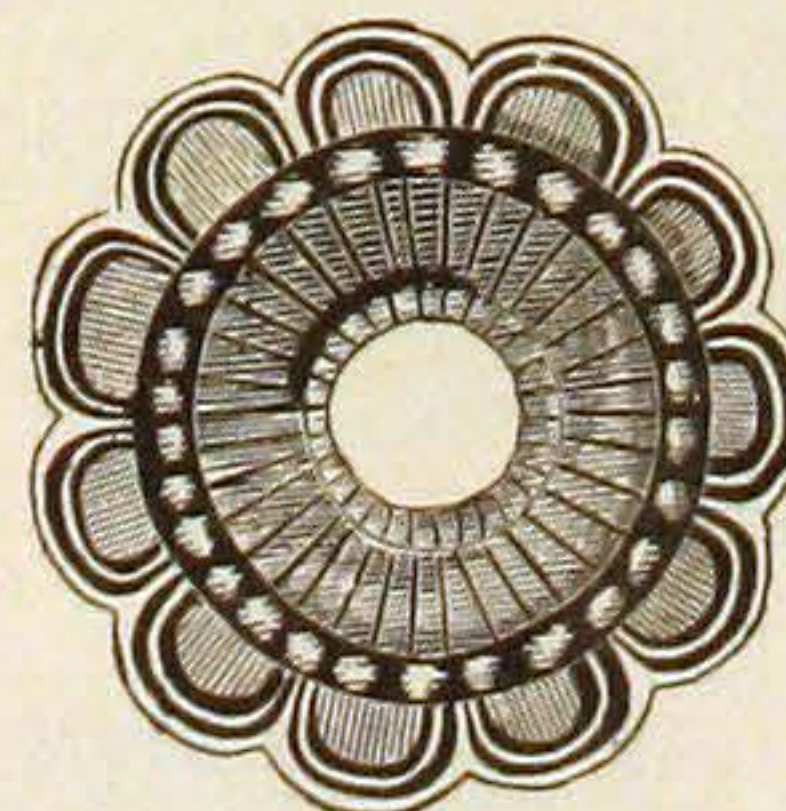
Wall Plate.

**Fig. 560.**



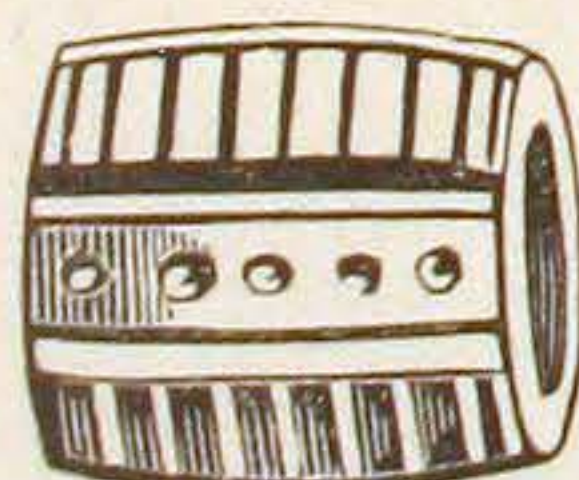
Side Nozzle.

**Fig. 565.**



Burner Cup.

**Fig. 563.**



Connecting Ball.

**Fig. 564.**

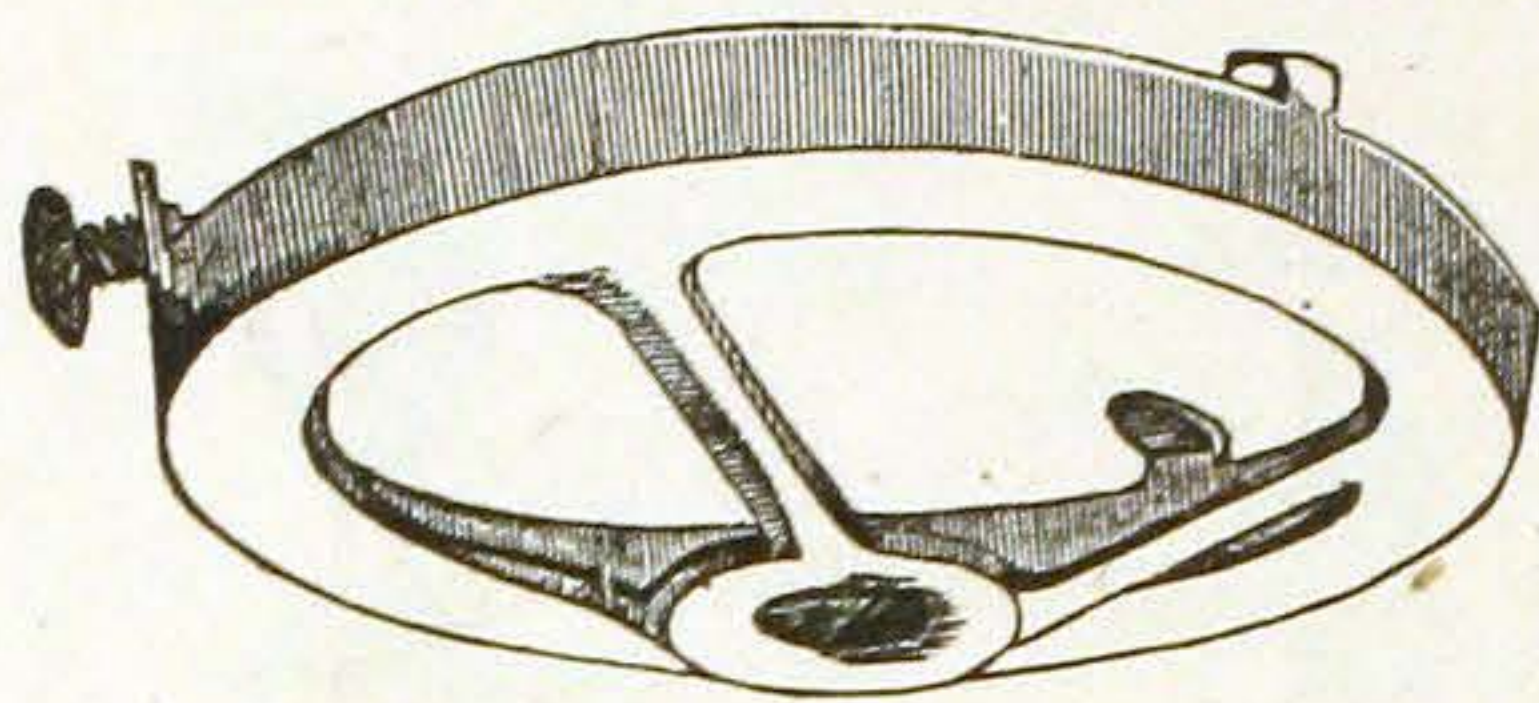


Spun Checks for covering Tubes.



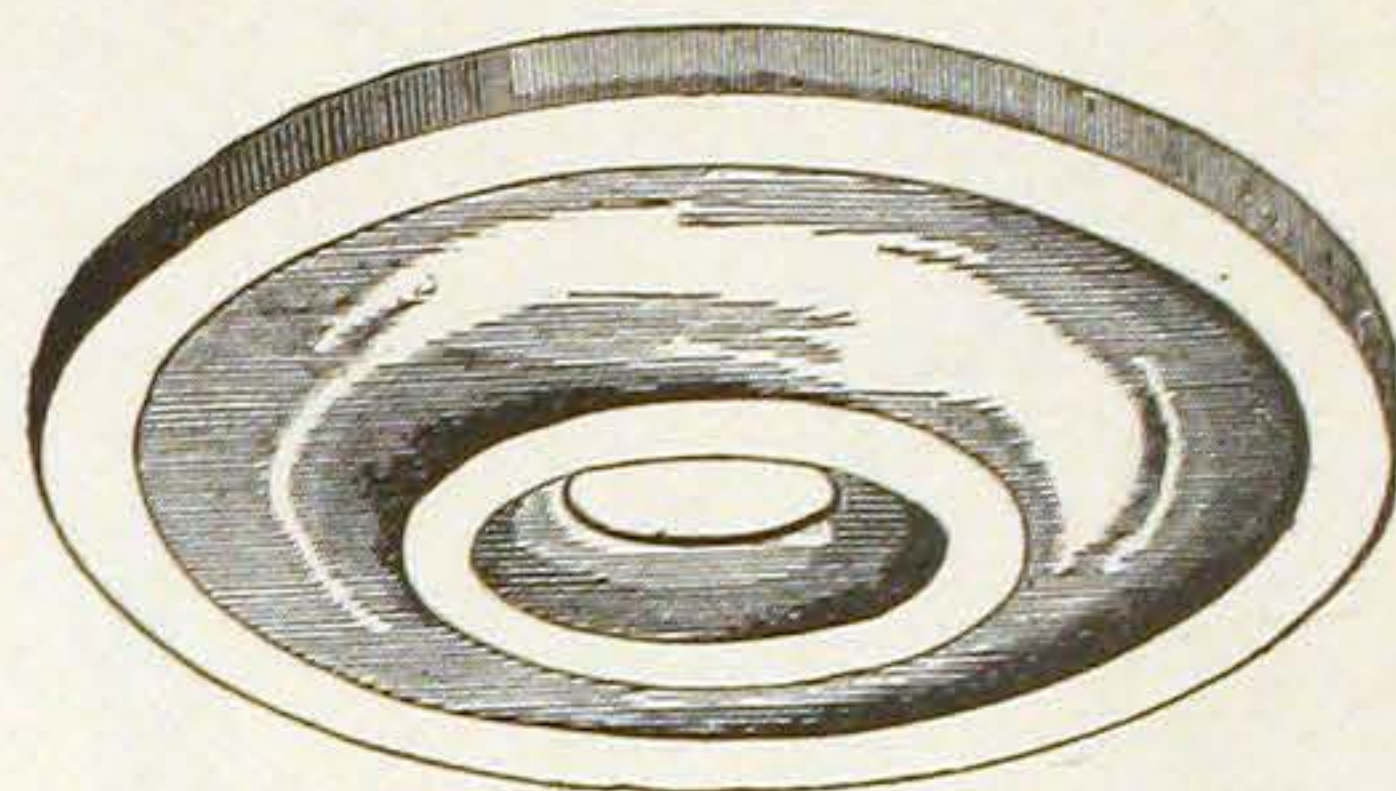
Globe Holder.

Fig. 566.



Ceiling Plate.

Fig. 567.



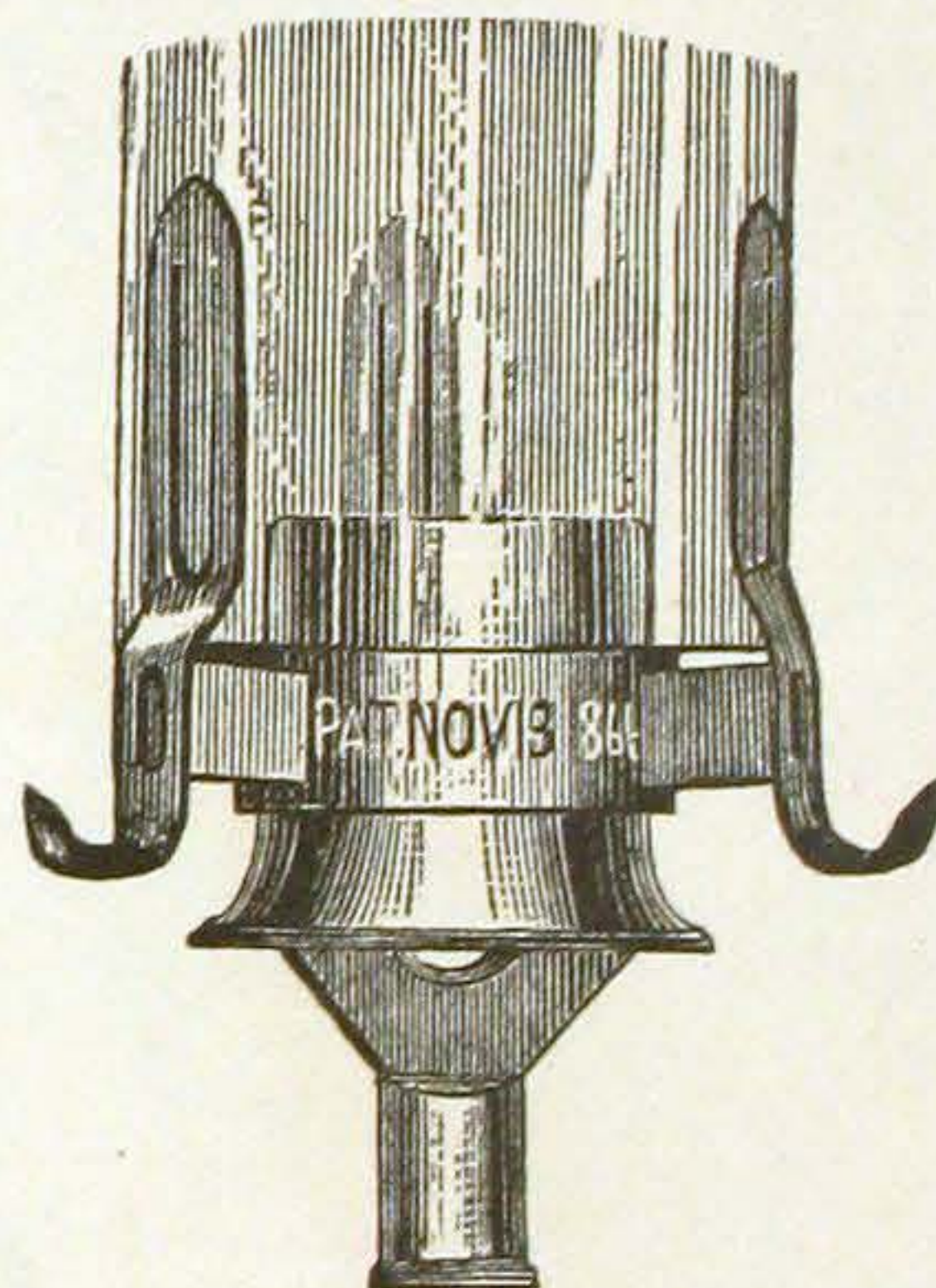
Bracket Back.

Fig. 568.



Argand Burner.

Fig. 569.



## GAS BURNERS.

Double Burners.

Fig. 570.

Fig. 571.

Brass.

Fig. 572.



Drawn Brass.



Cast Brass.

Fig. 577½.



Paragon.



Fish-tail.



Bat-wing.

Burner Cleaners.

Fig. 578.



For Fish-tail Burners.



For Bat-wing Burners.

Iron.

Fig. 573.

Fig. 574.

Iron Pillar.

Fig. 575.

Scotch Tips.

Fig. 576.



Bat-wing.

Fig. 577.

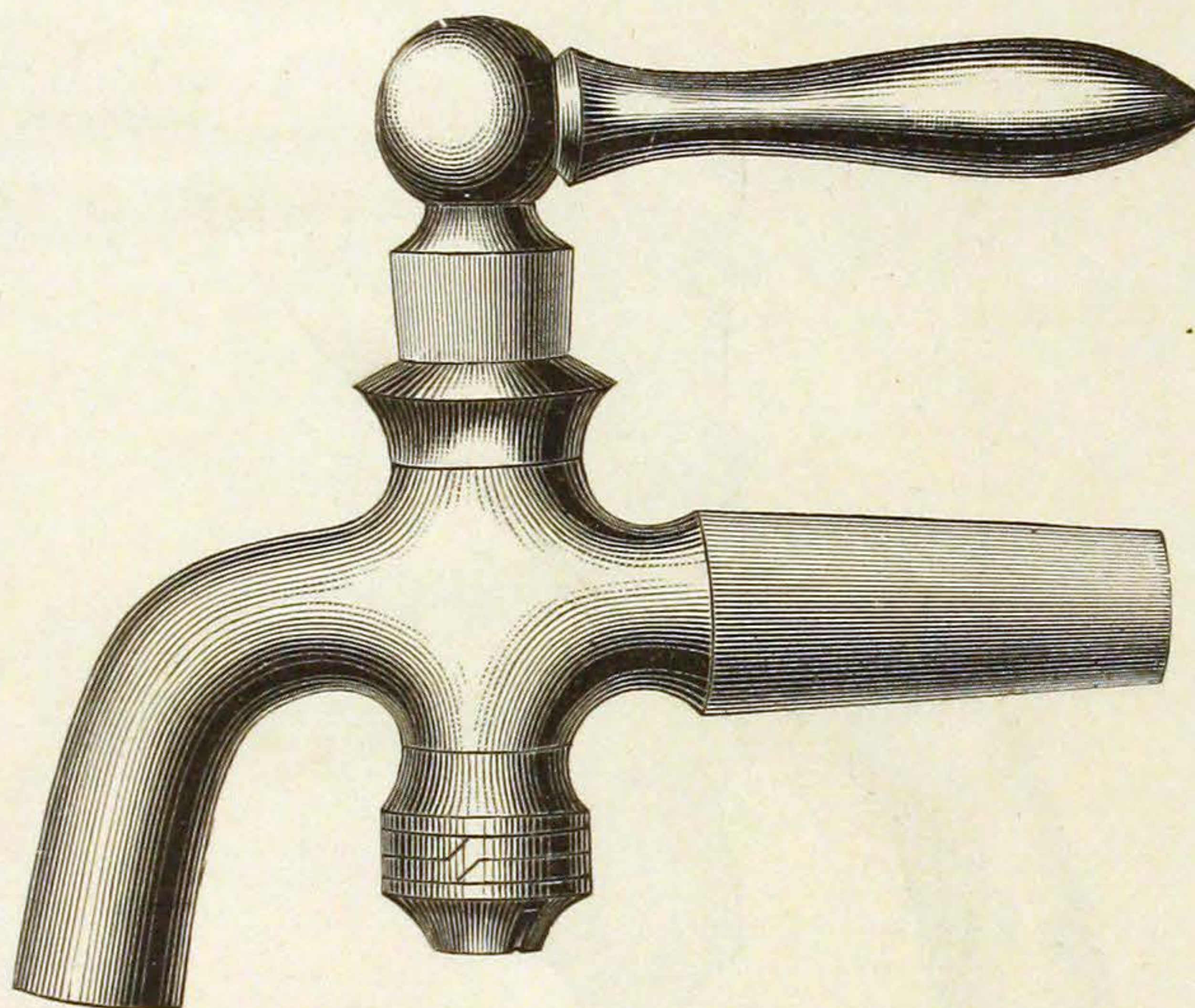


Fish-tail.



PLAIN BIBBS.  
TO SOLDER.

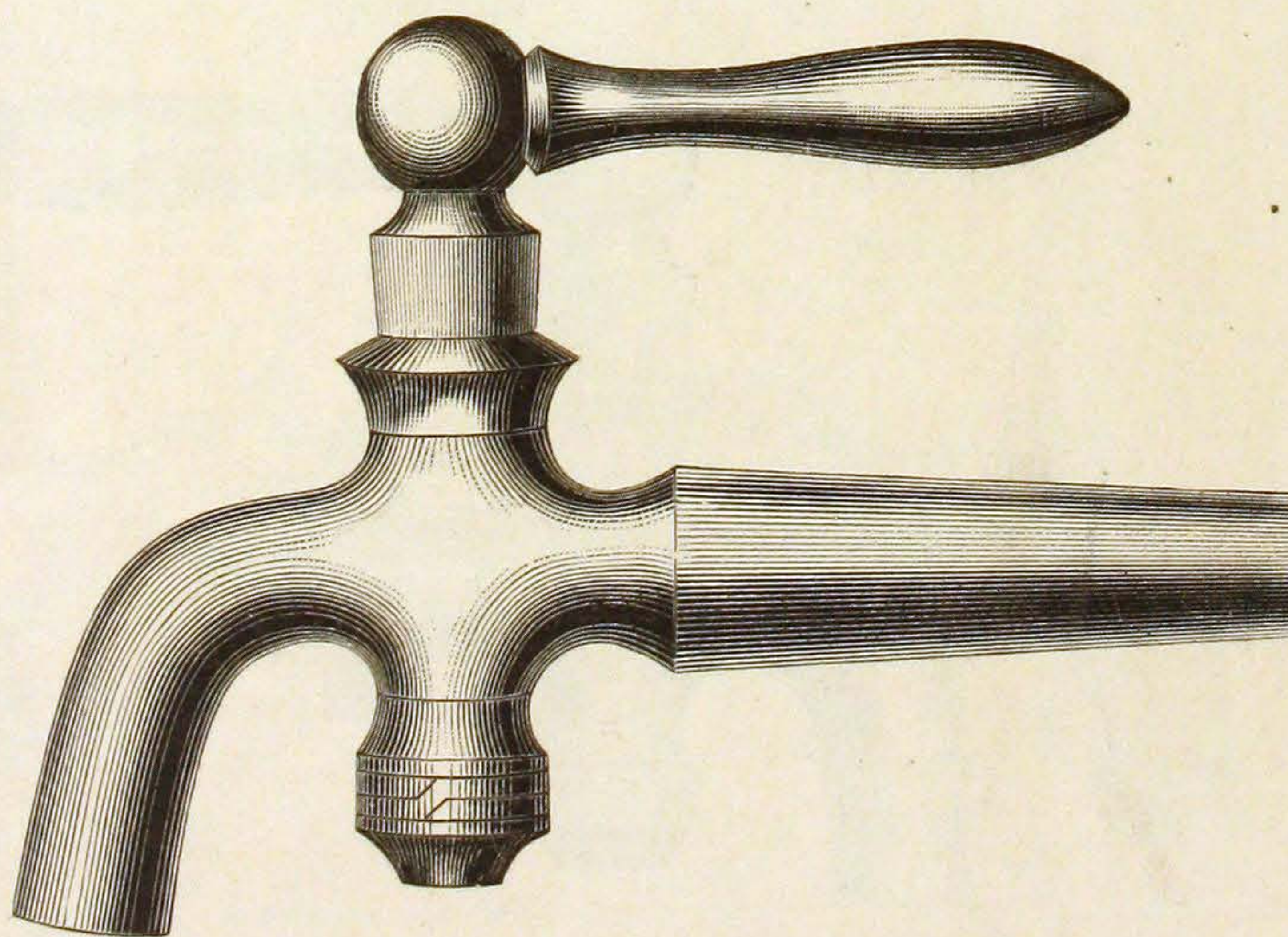
Fig. 600.



Rough, Finished and Plated.

LONG SHANK.

Fig. 601.

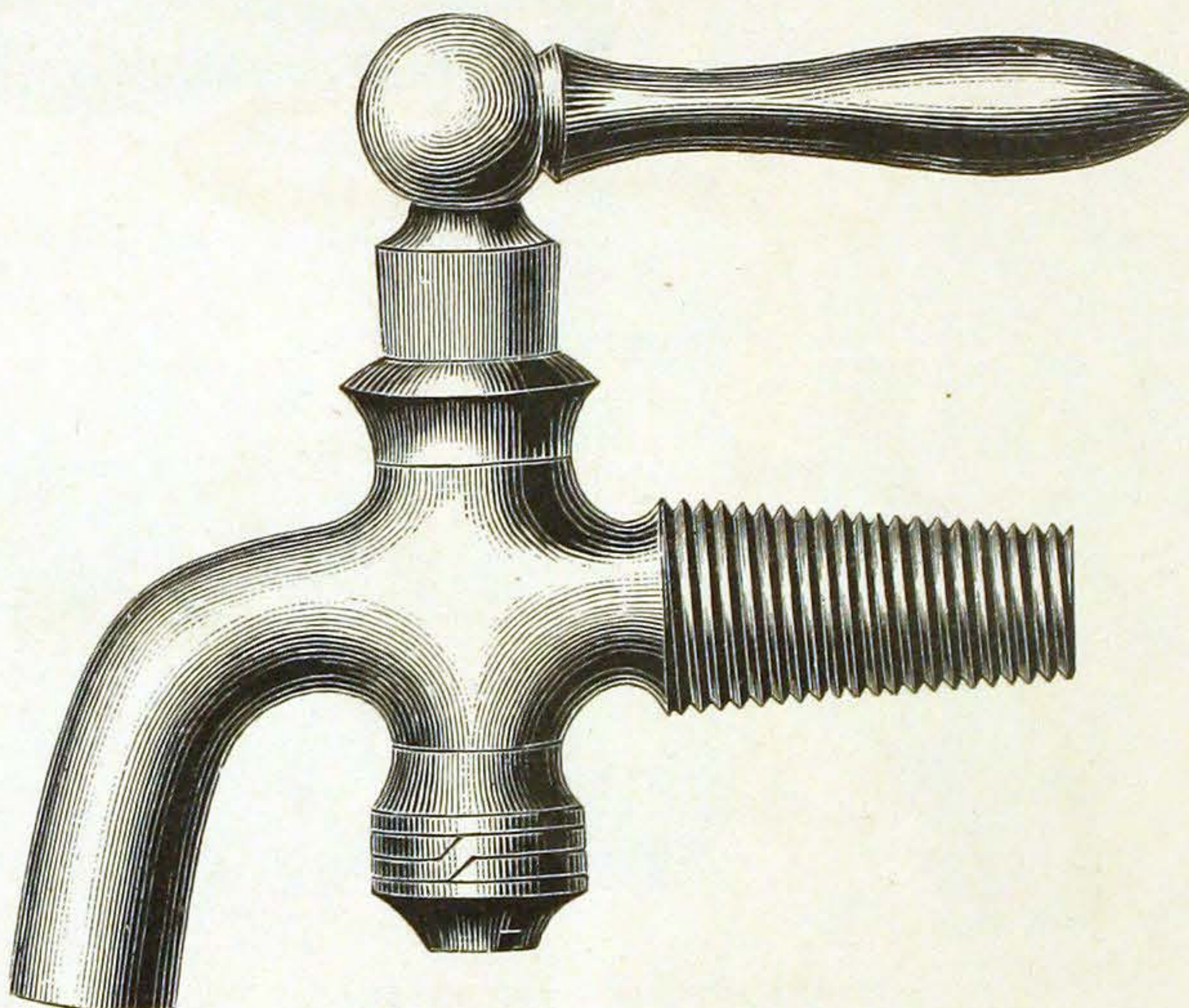


Finished.



PLAIN BIBBS.  
SCREWED FOR WOOD.

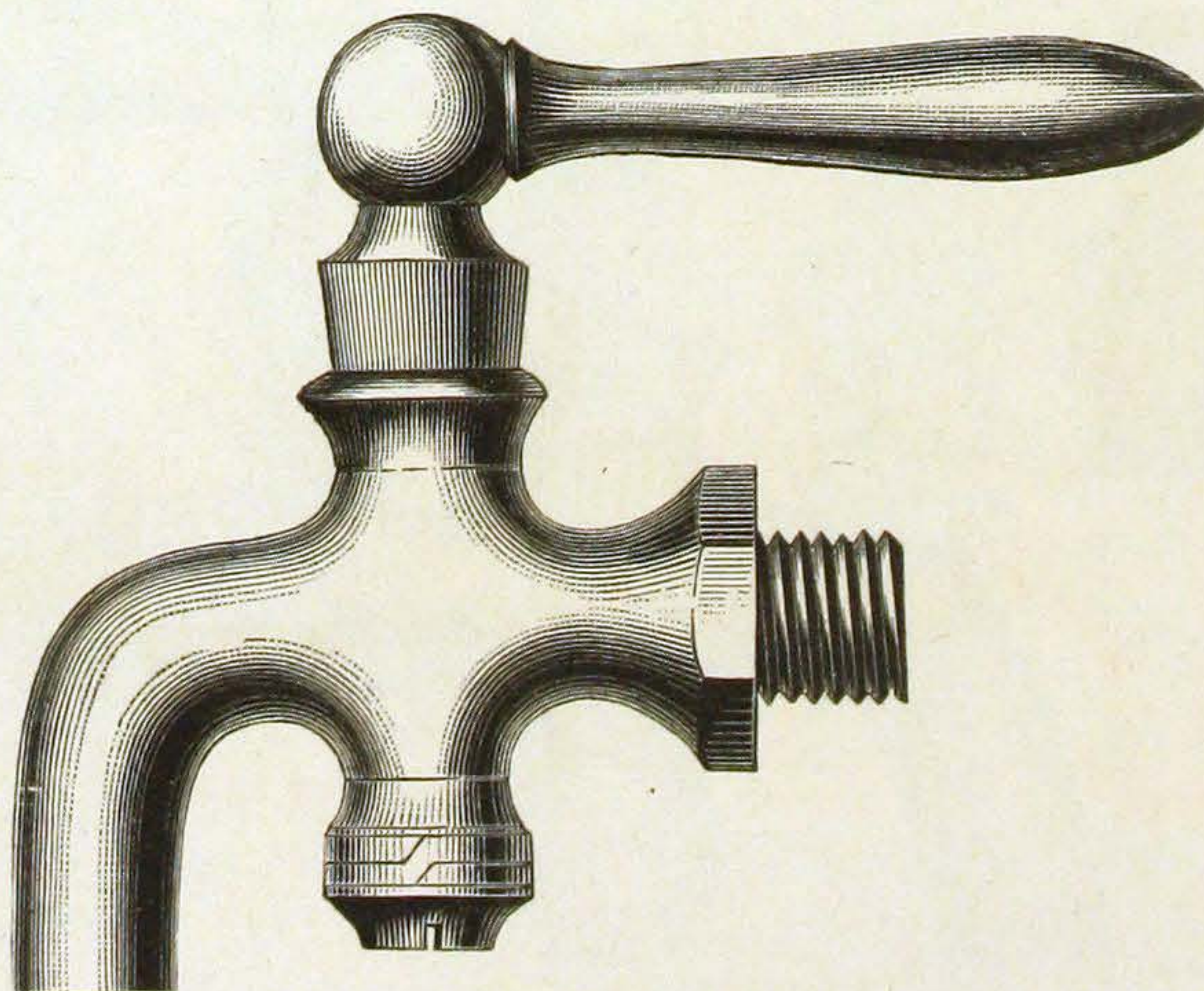
Fig. 602.



Rough and Finished.

SCREWED FOR IRON PIPE.

Fig. 603.



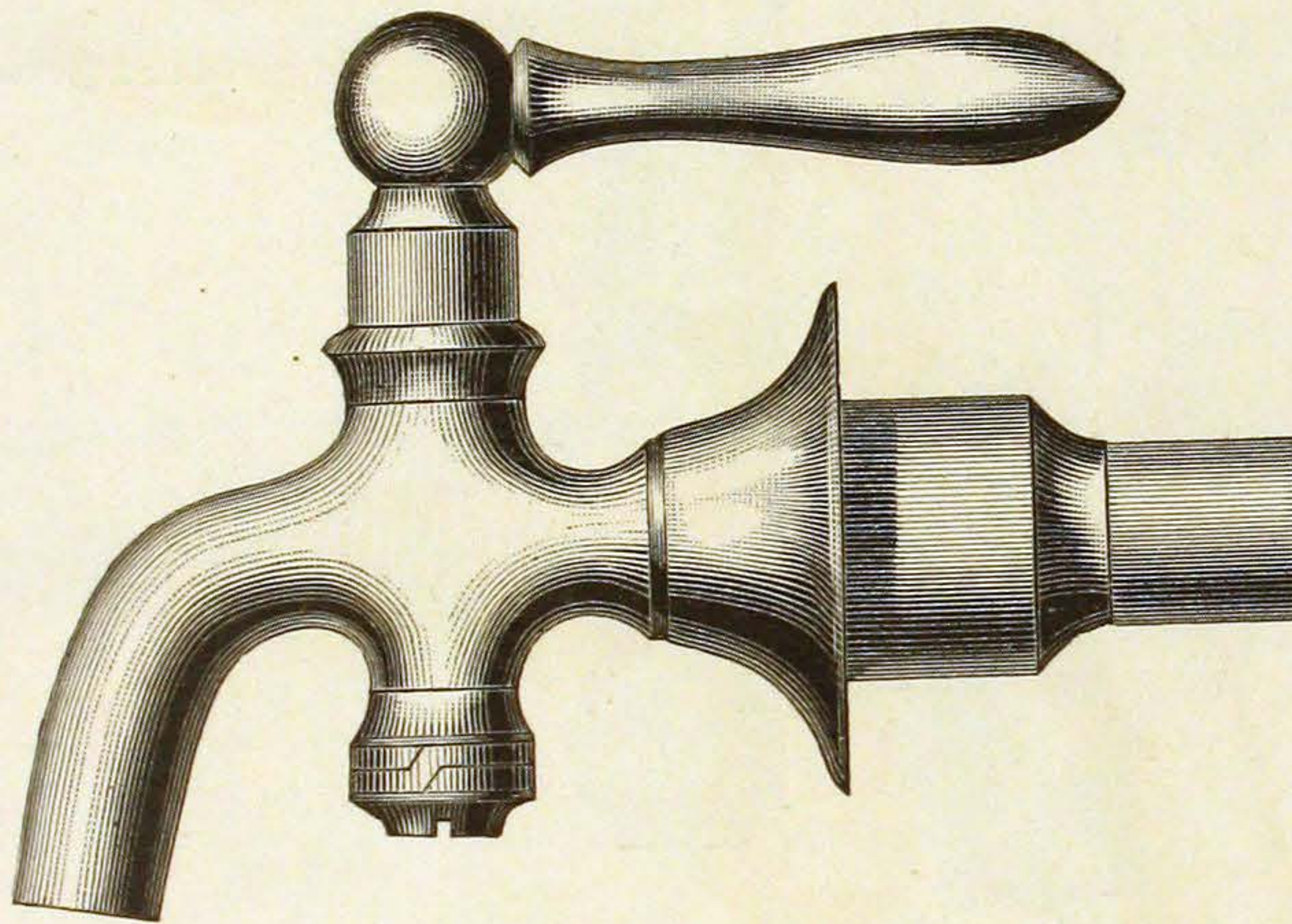
Rough, Finished and Plated.



PLAIN BIBBS.

FLANGE AND THIMBLE.

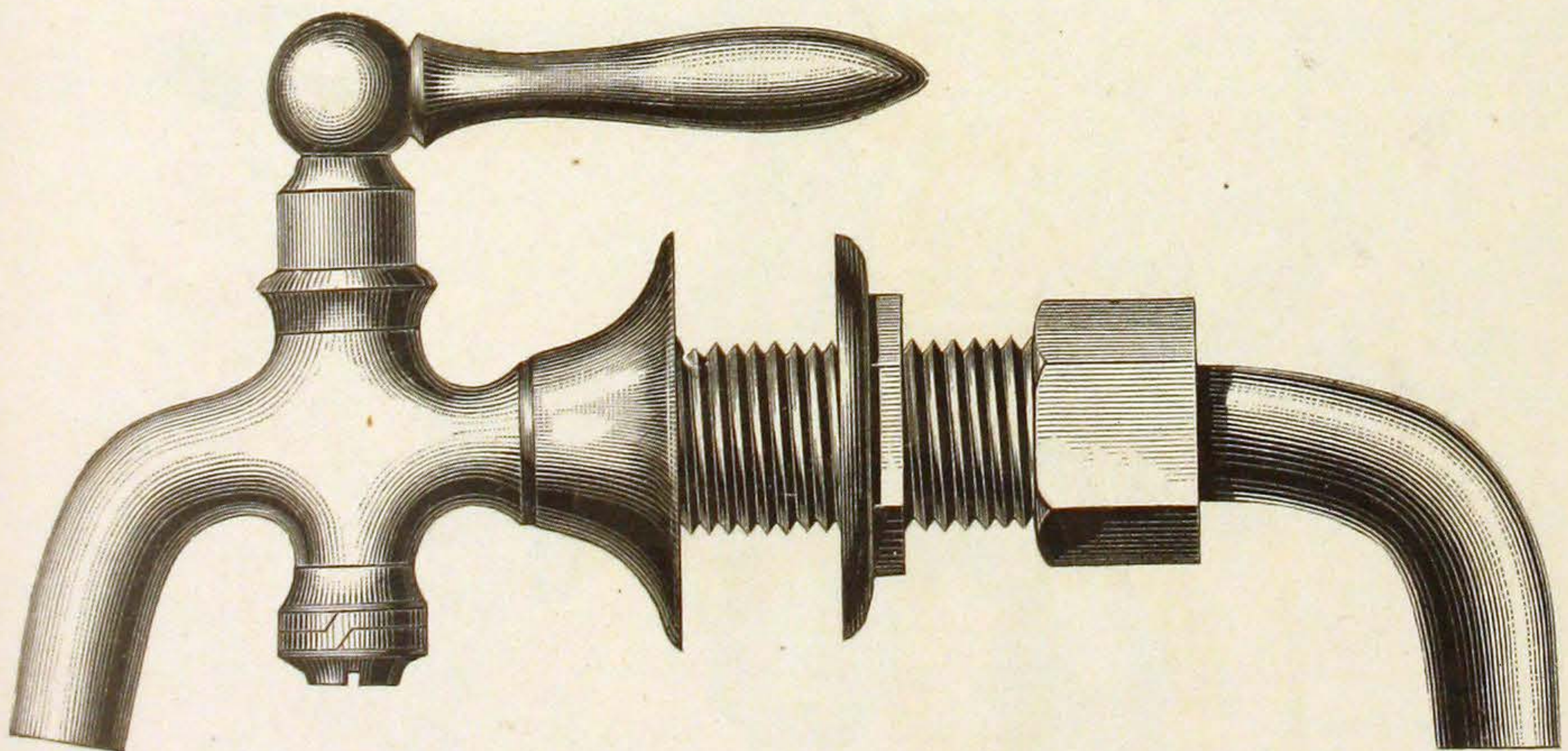
Fig. 604.



Finished and Plated.

FLANGE NUT AND BENT COUPLING.

Fig. 605.

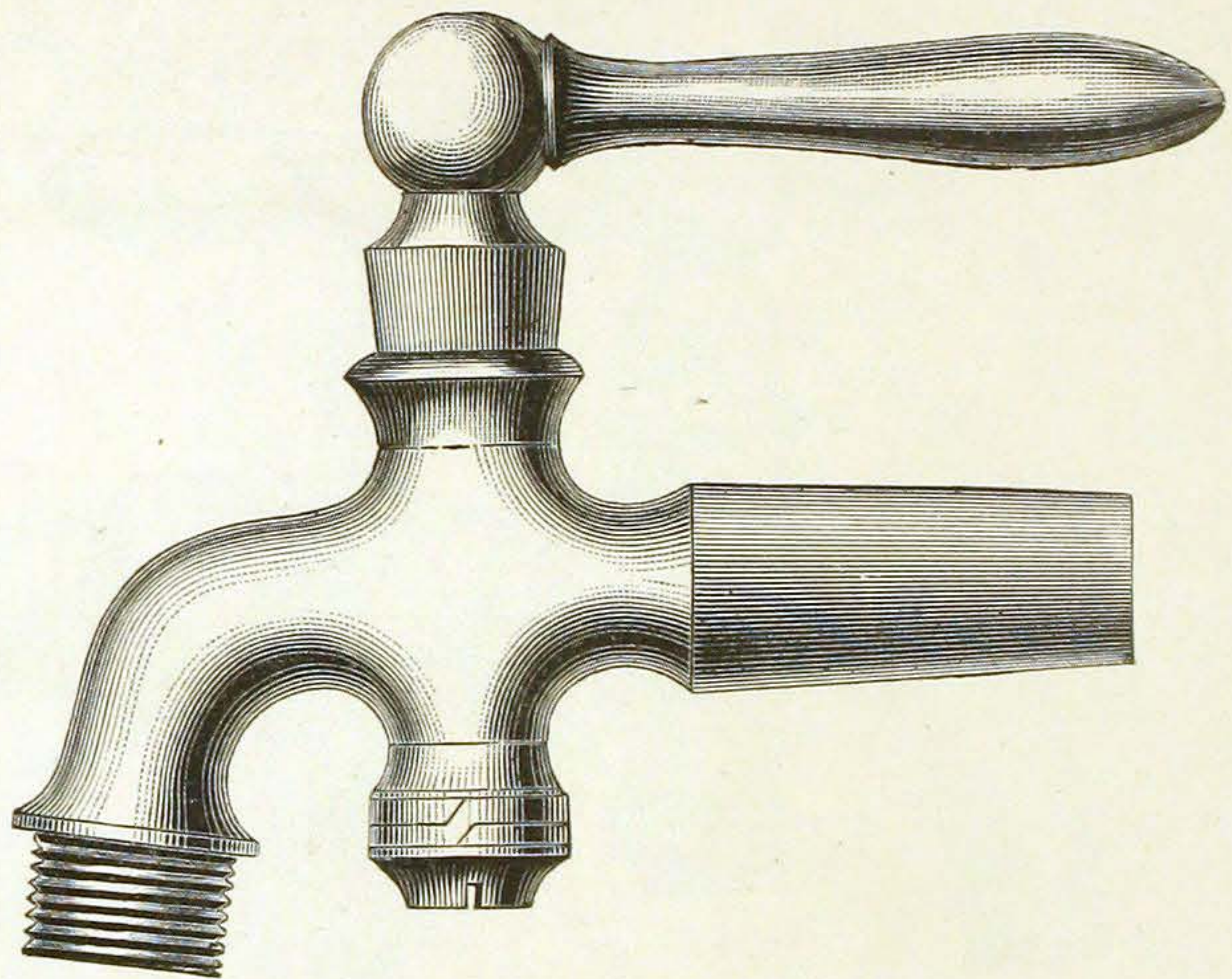


Finished and Plated.



## HOSE BIBBS. TO SOLDER.

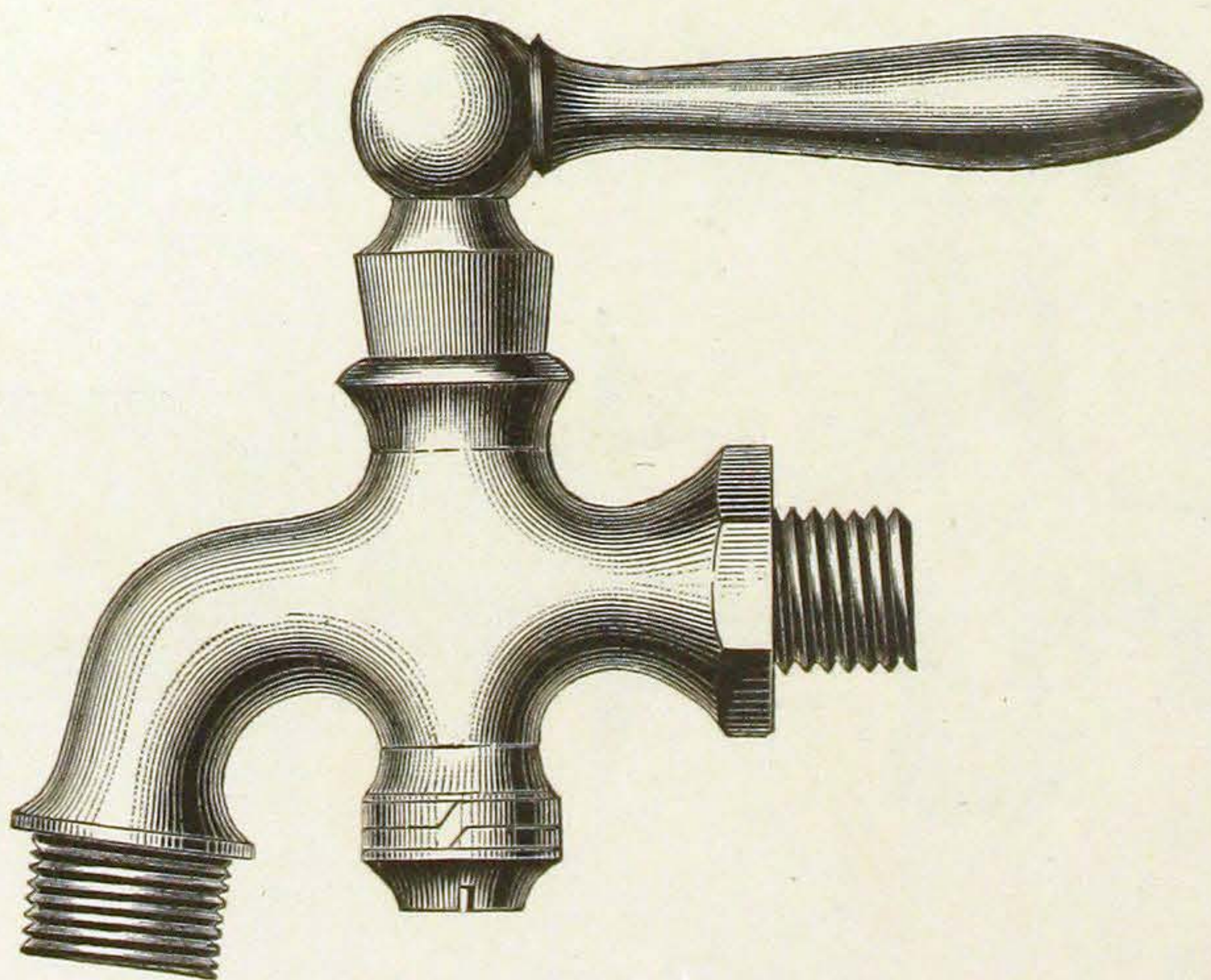
**Fig. 606.**



**Rough and Finished.**

## SCREWED FOR IRON PIPE.

**Fig. 607.**

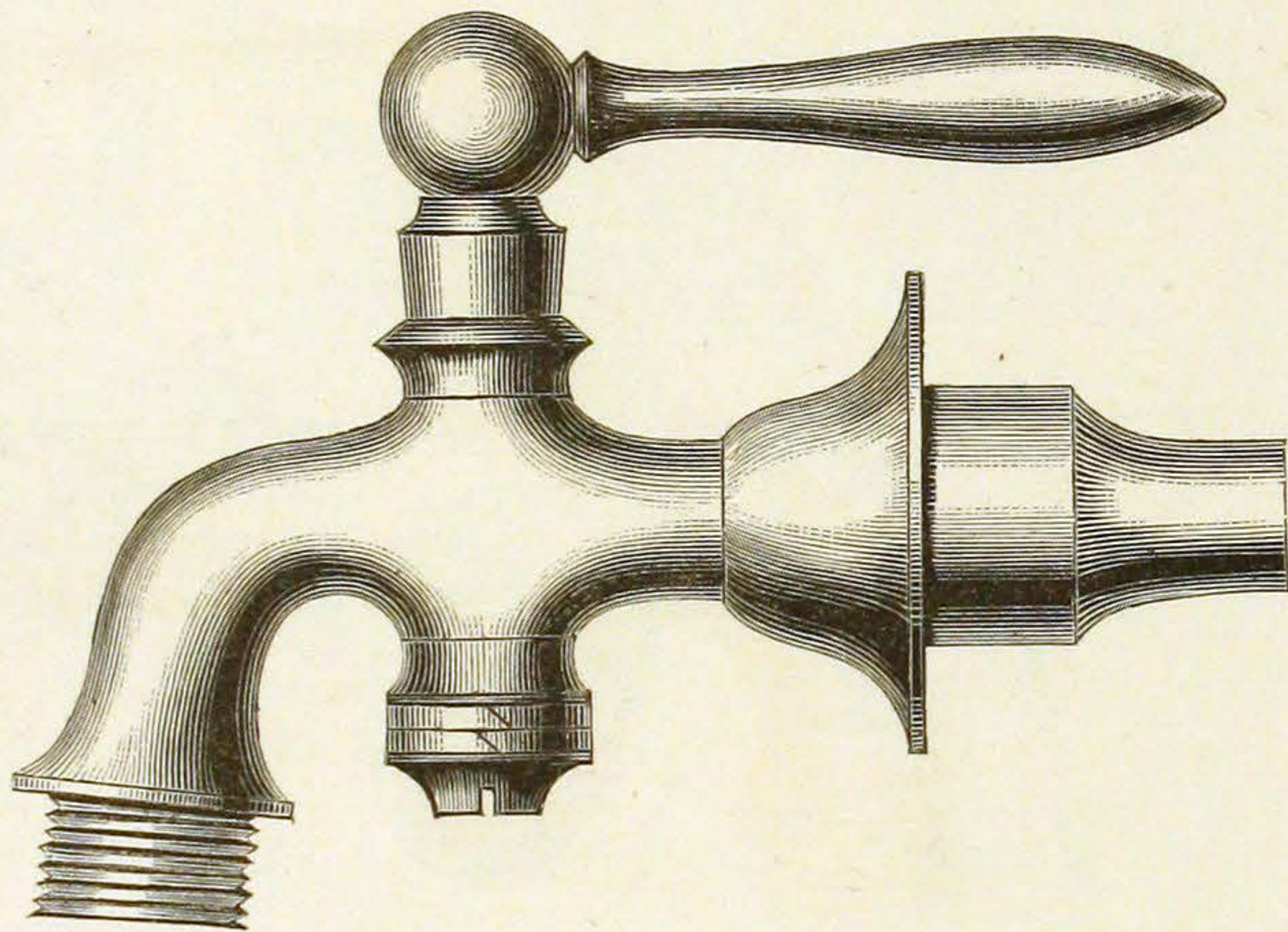


**Rough and Finished.**



HOSE BIBB.  
FLANGE AND THIMBLE.

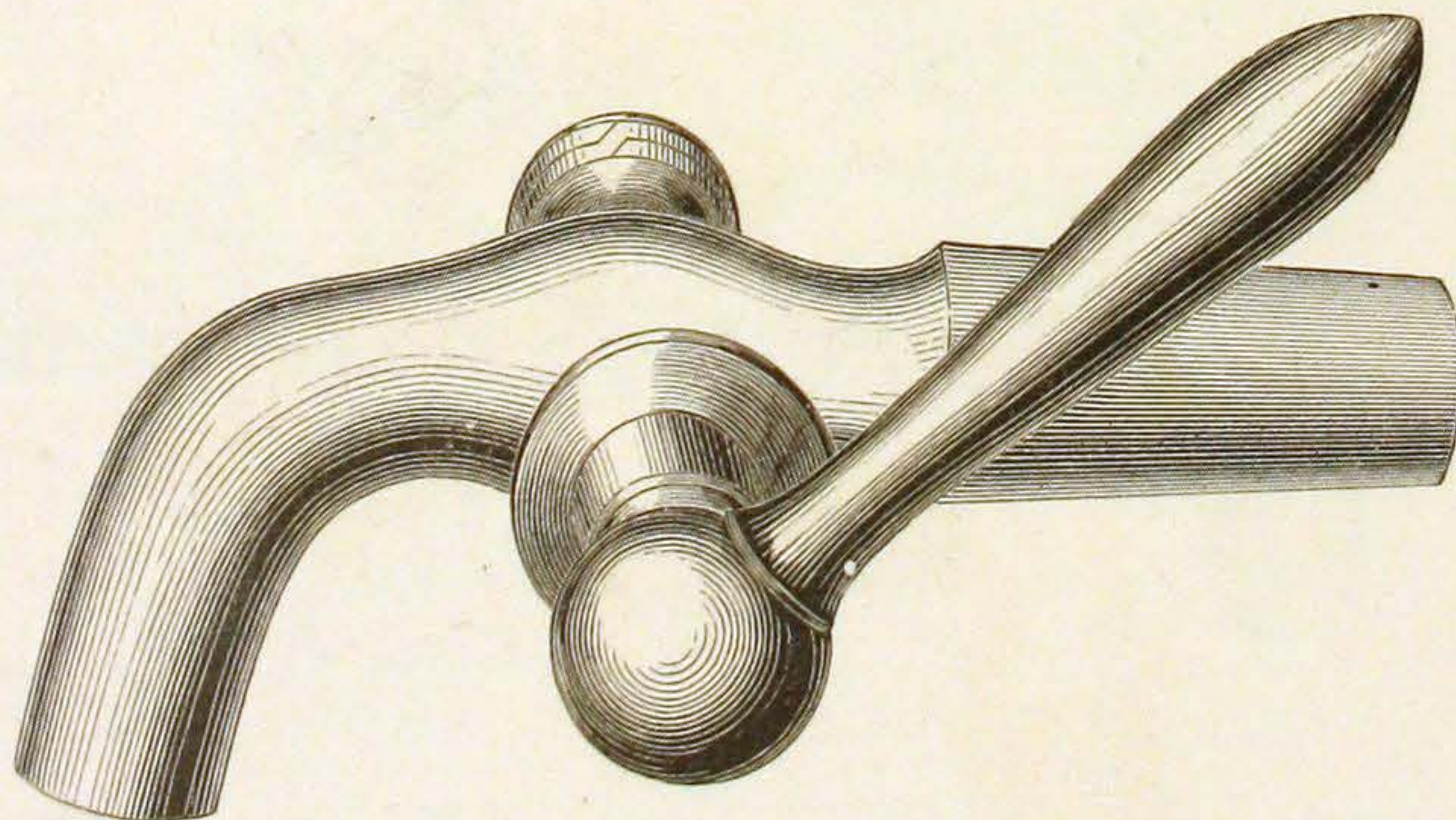
Fig. 608.



Finished.

WASH TRAY BIBB.  
TO SOLDER.

Fig. 609.

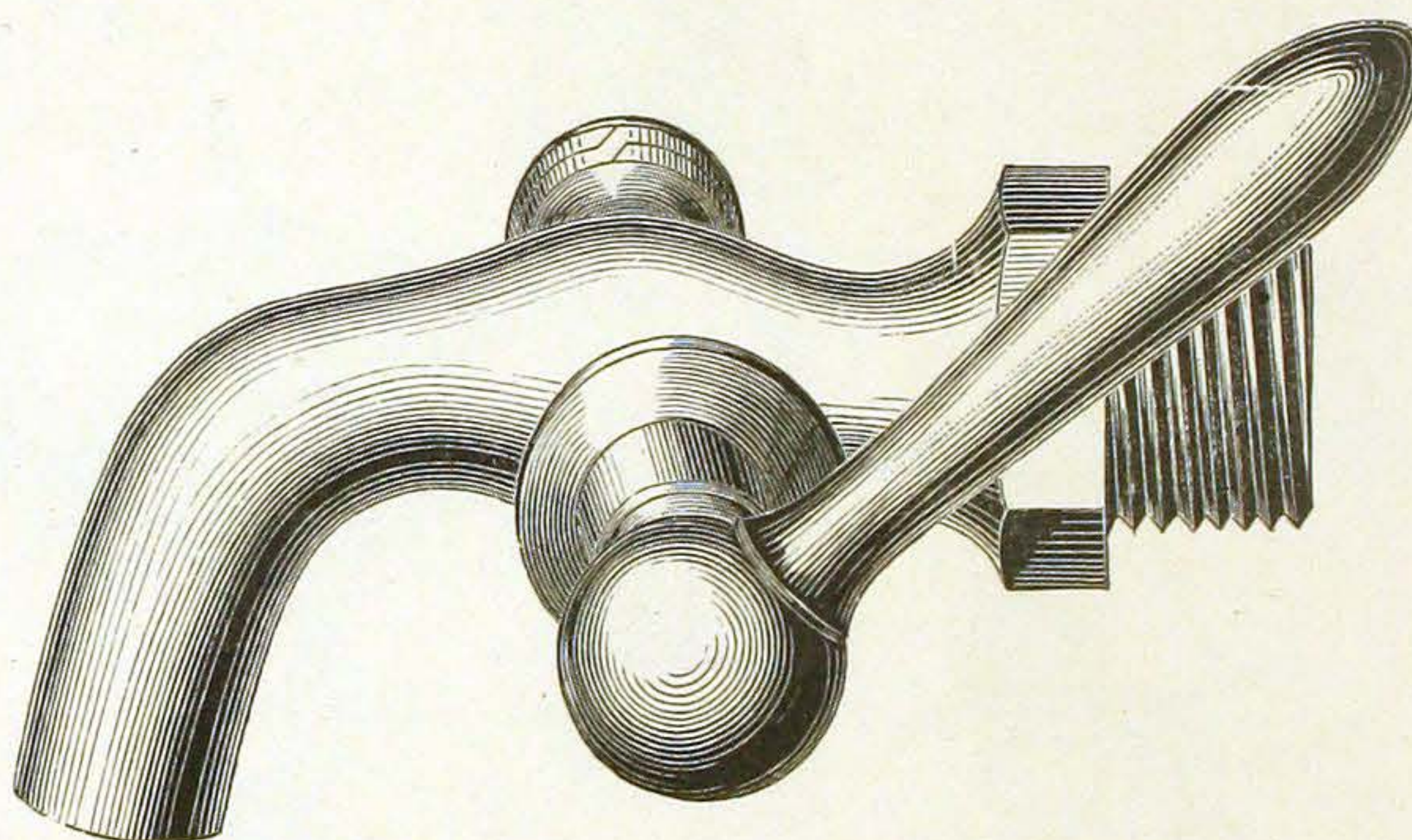


Finished.



WASH-TRAY BIBBS.  
SCREWED FOR IRON PIPE.

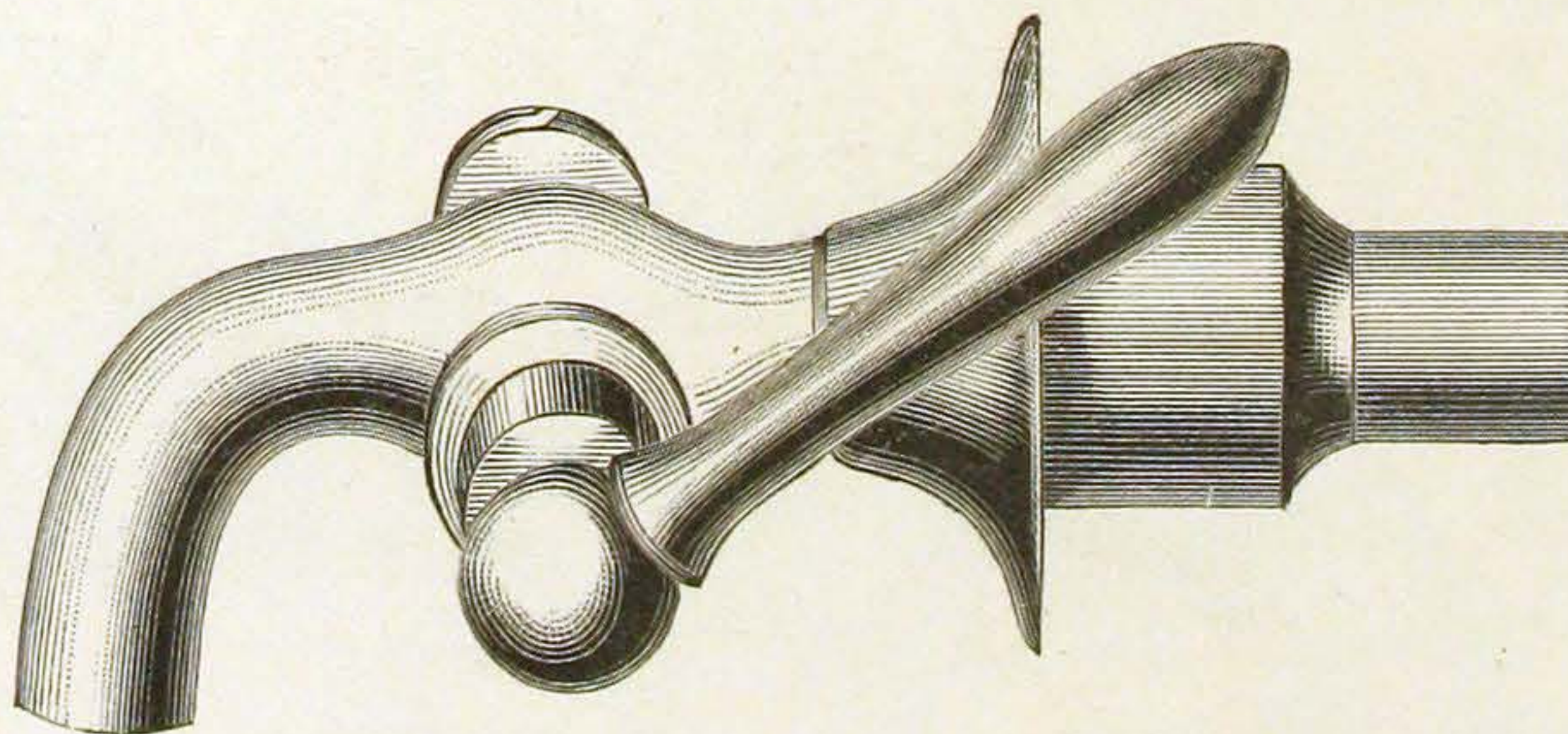
**Fig. 610.**



**Finished.**

FLANGE AND THIMBLE.

**Fig. 611.**

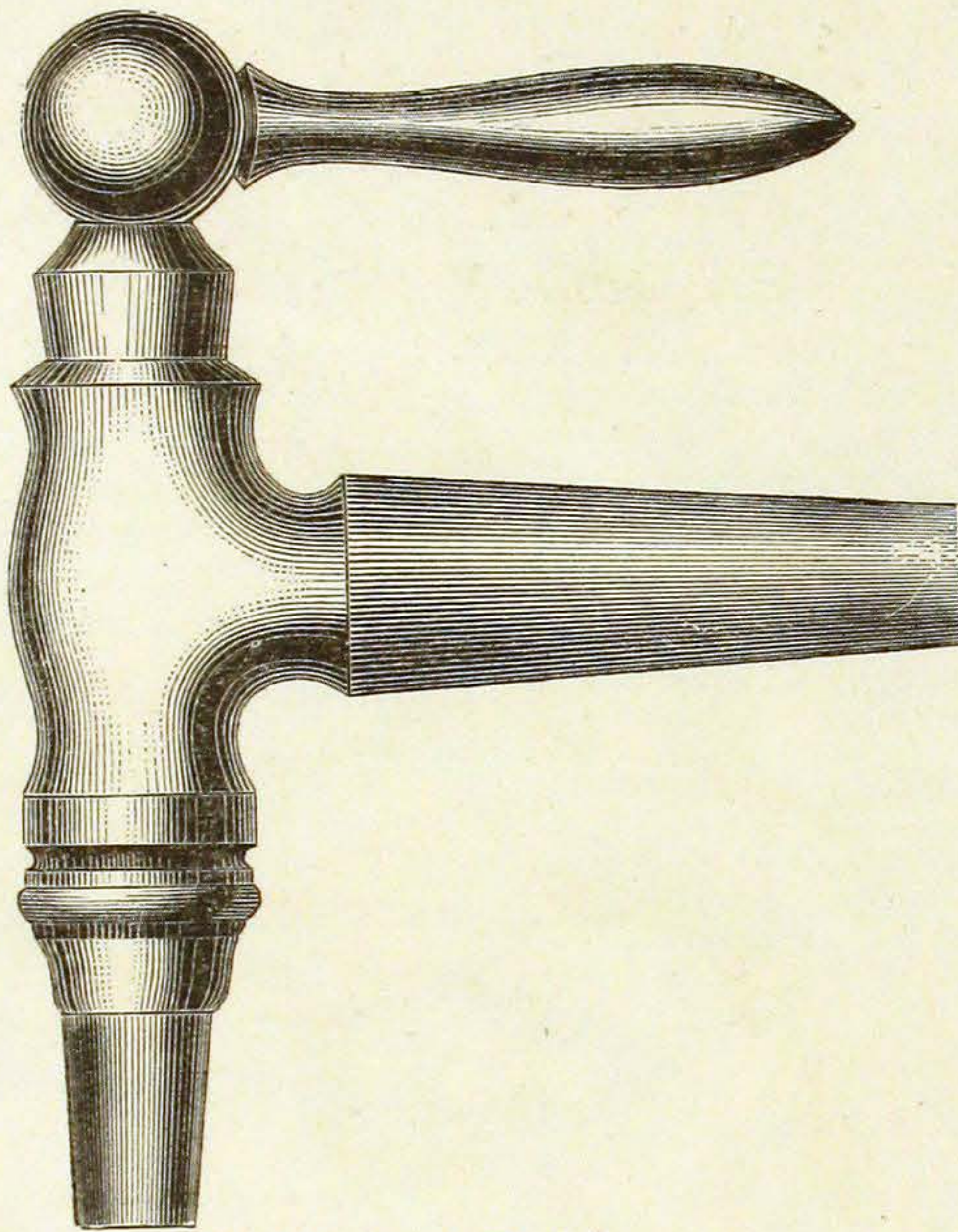


**Finished.**



BATH BIBBS.  
TO SOLDER.

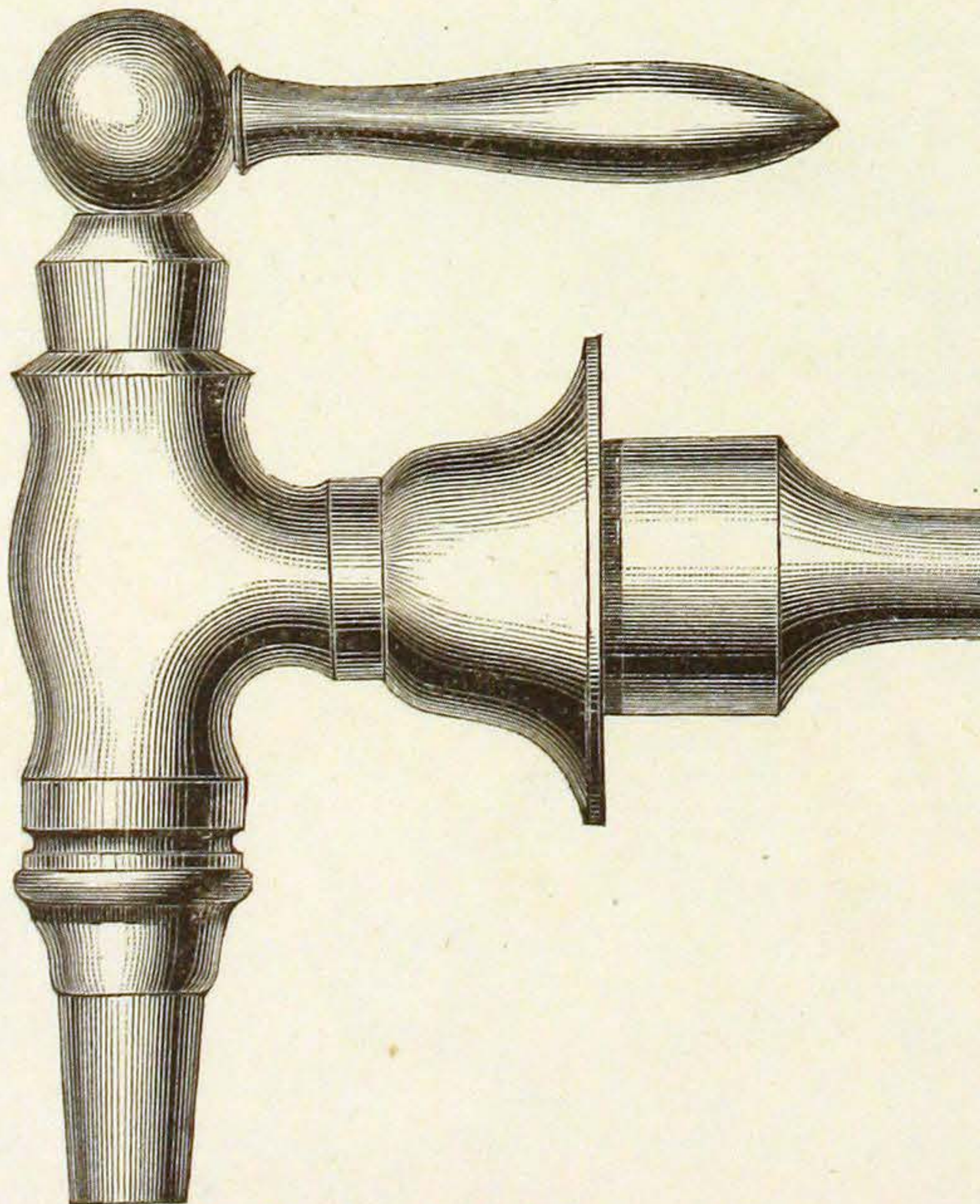
Fig. 612.



Finished and Plated.

FLANGE AND THIMBLE.

Fig. 613.



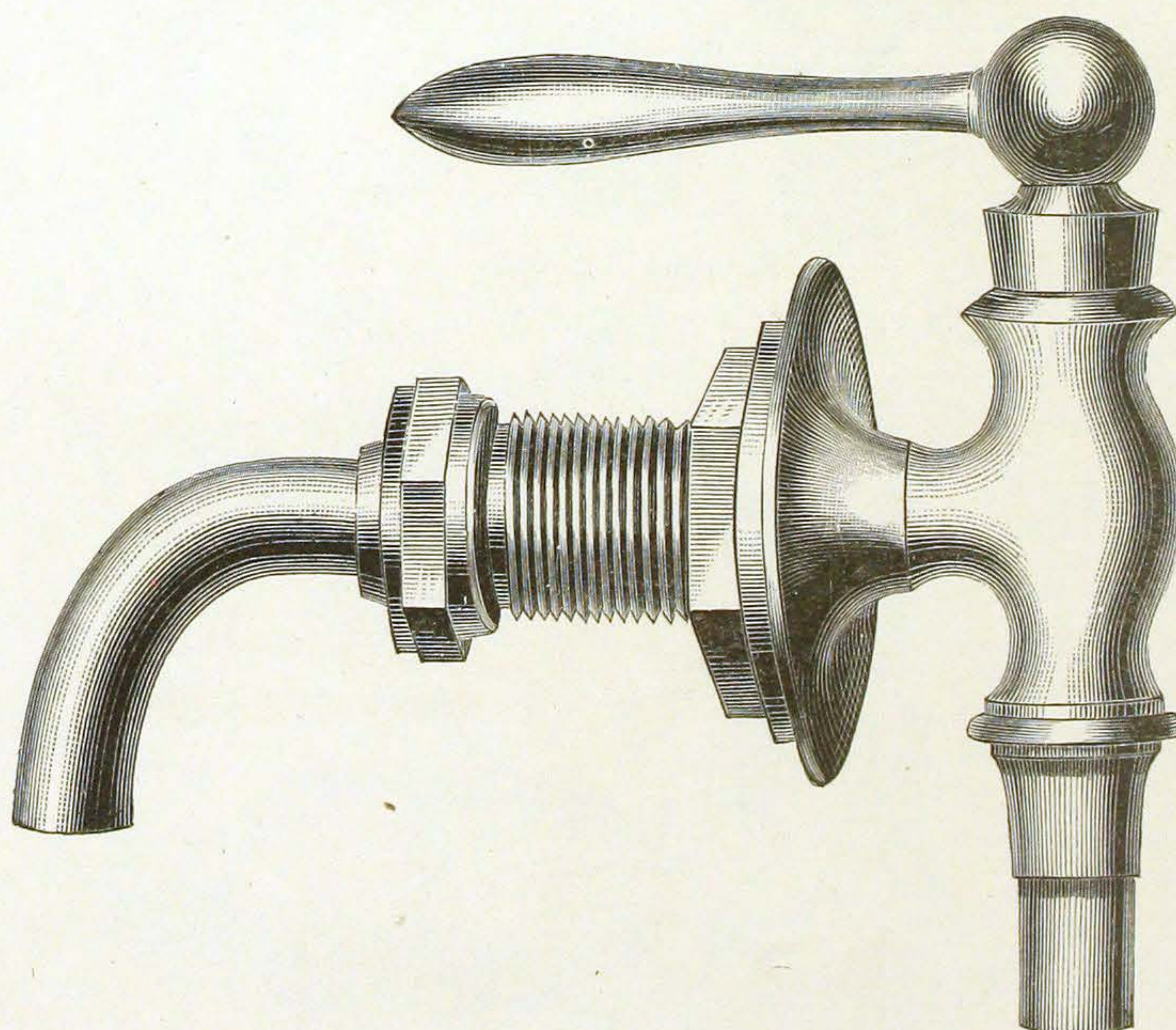
Finished and Plated.



## BATH BIBB.

FLANGE, NUT AND BENT COUPLING.

Fig. 614.

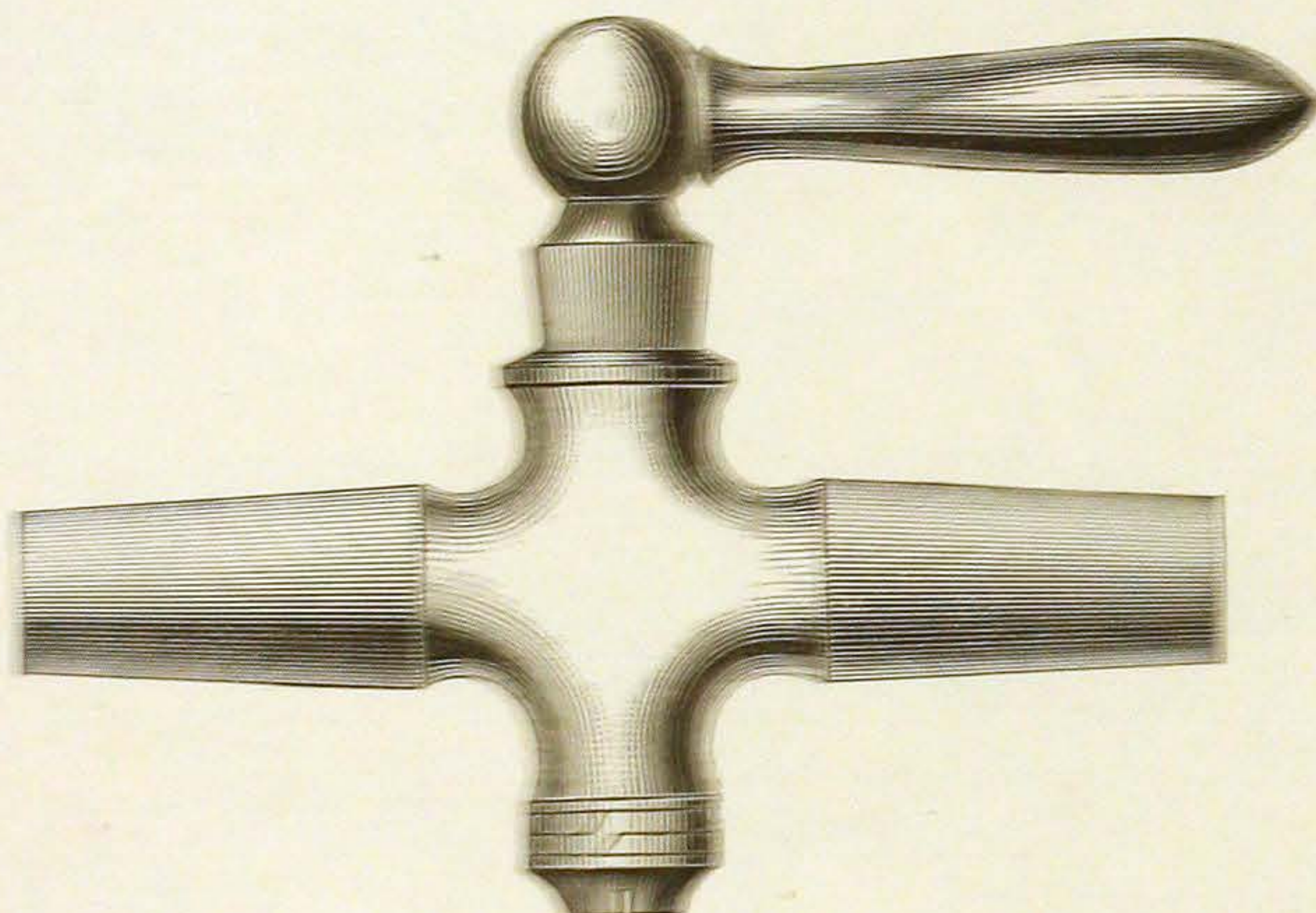


Finished and Plated.



PLAIN FINISHED STOPS.  
TO SOLDER.

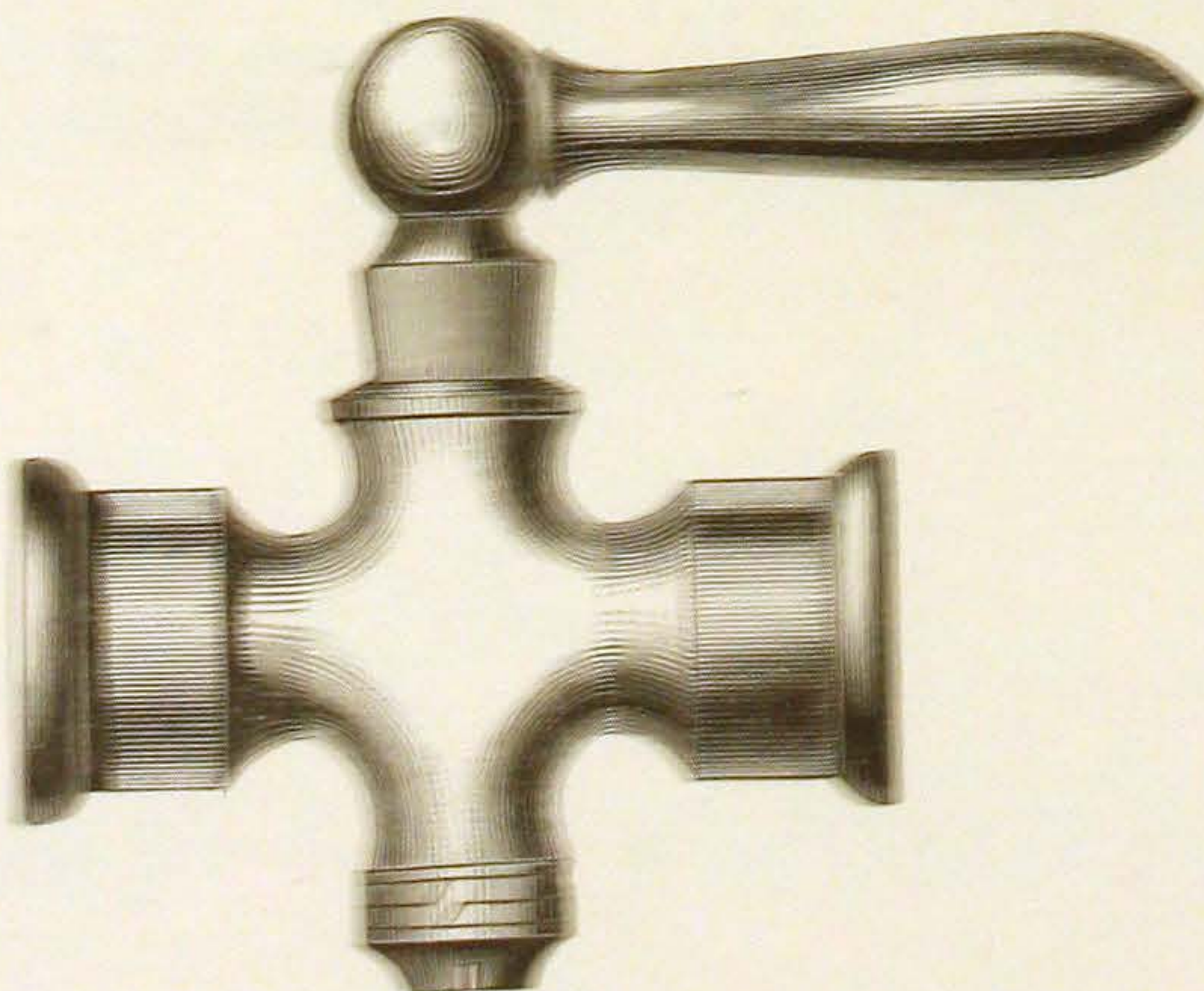
Fig. 615.



Finished and Plated.

SCREWED FOR IRON PIPE.

Fig. 616.

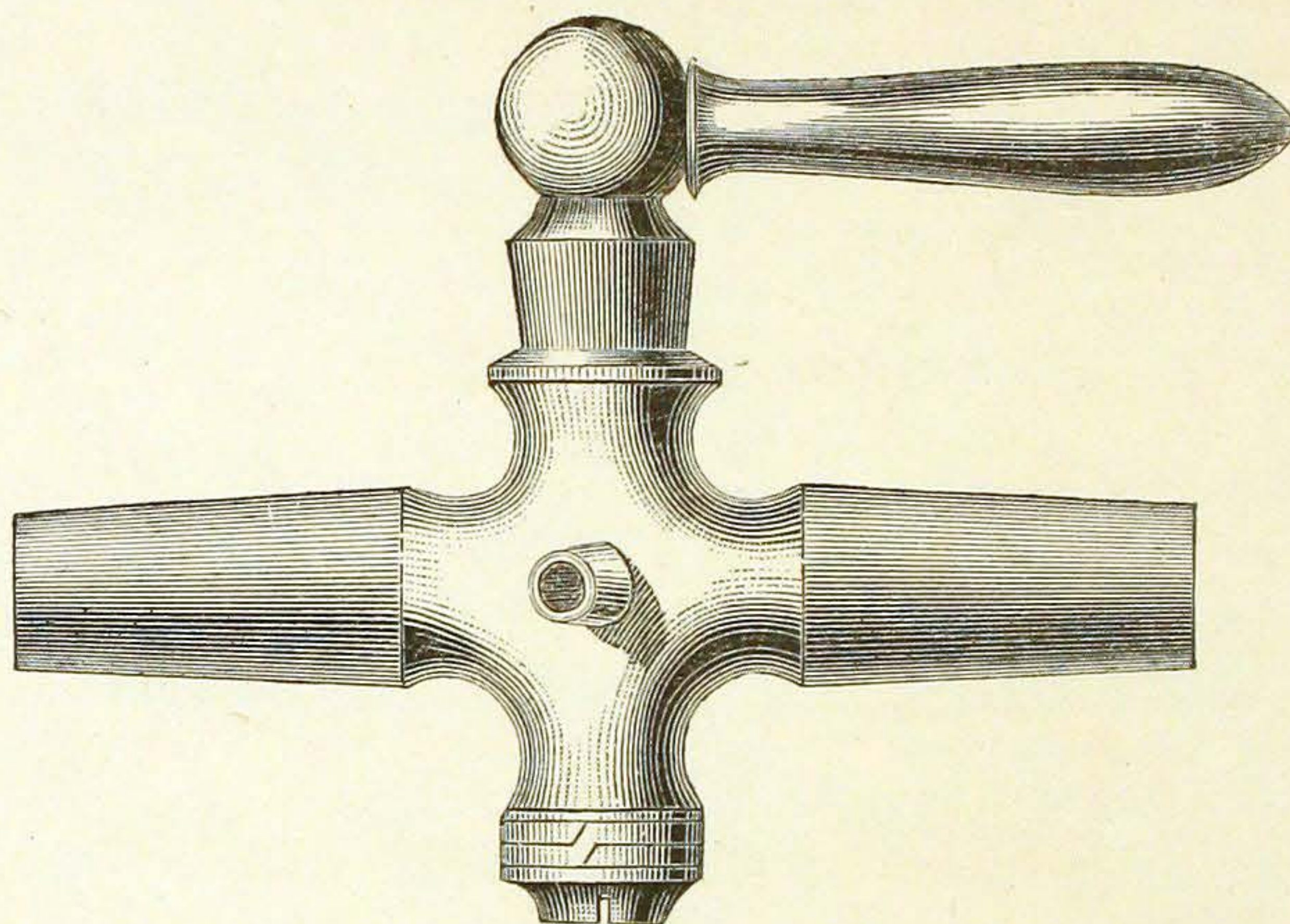


Finished and Plated.



FINISHED SHOWER-BATH COCKS.  
TO SOLDER.

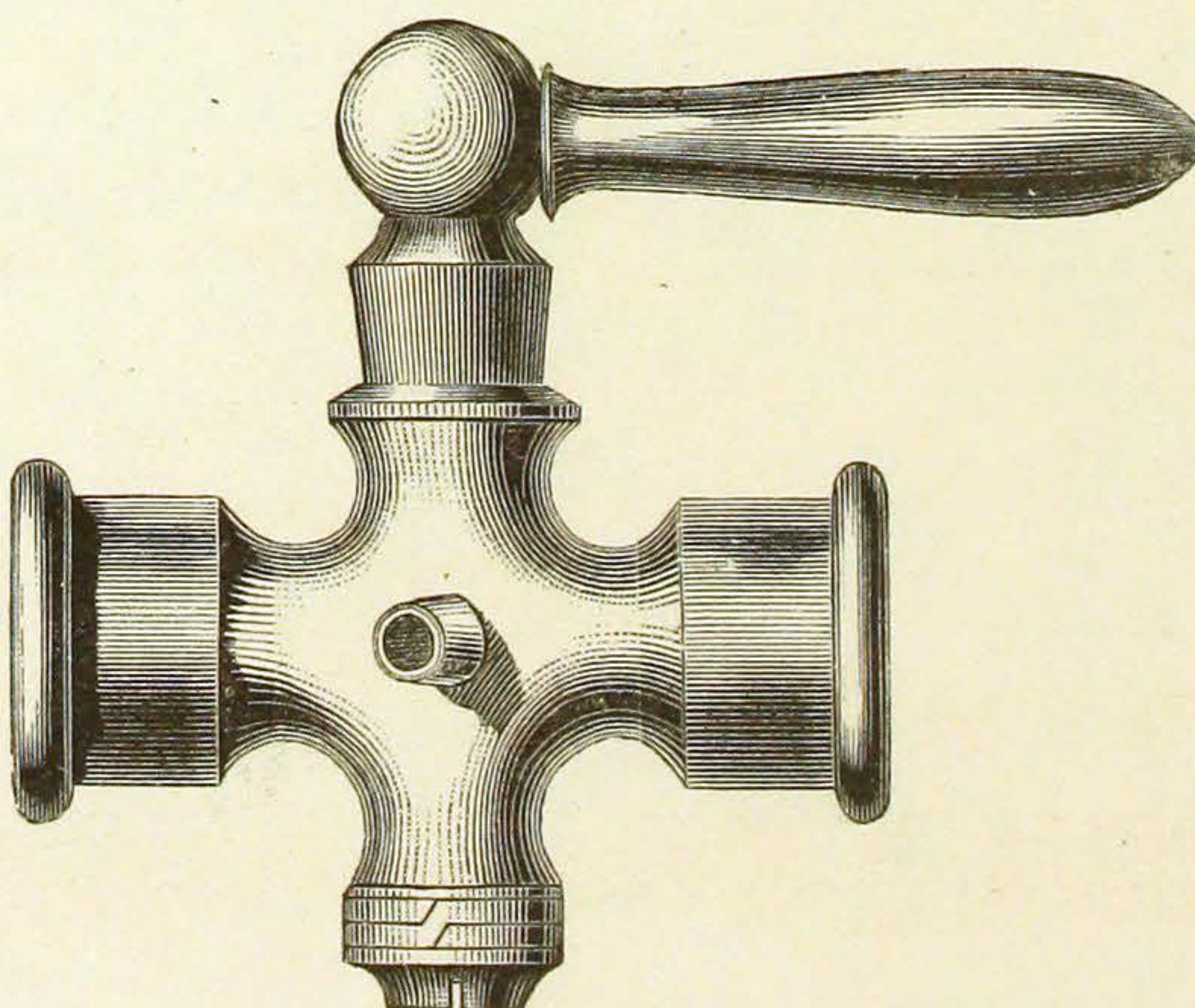
Fig. 617.



Finished and Plated.

SCREWED FOR IRON PIPE.

Fig. 618.

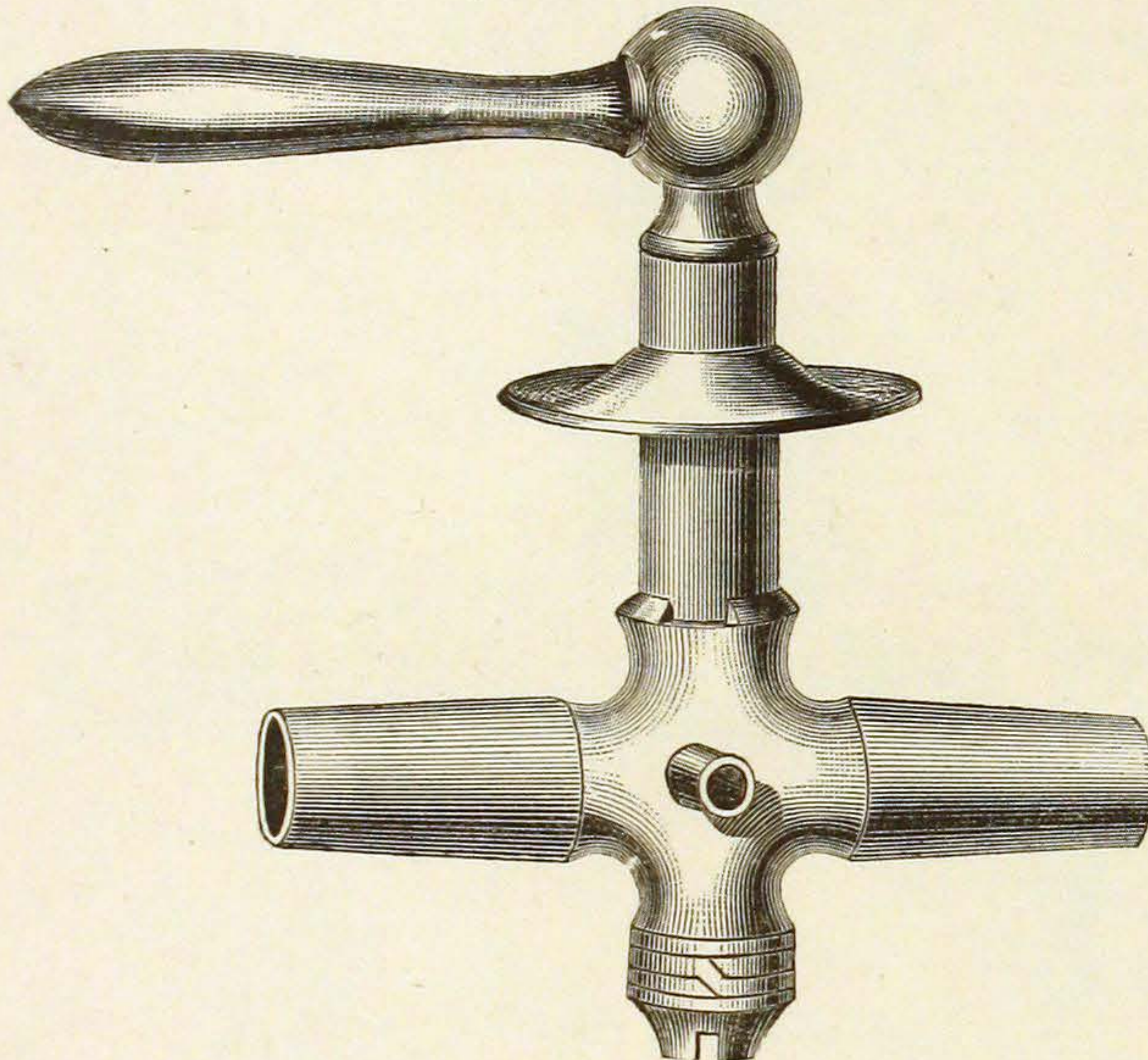


Finished and Plated.



ROUGH SHOWER-BATH COCK,  
WITH FINISHED FLANGE AND HANDLE.  
TO SOLDER.

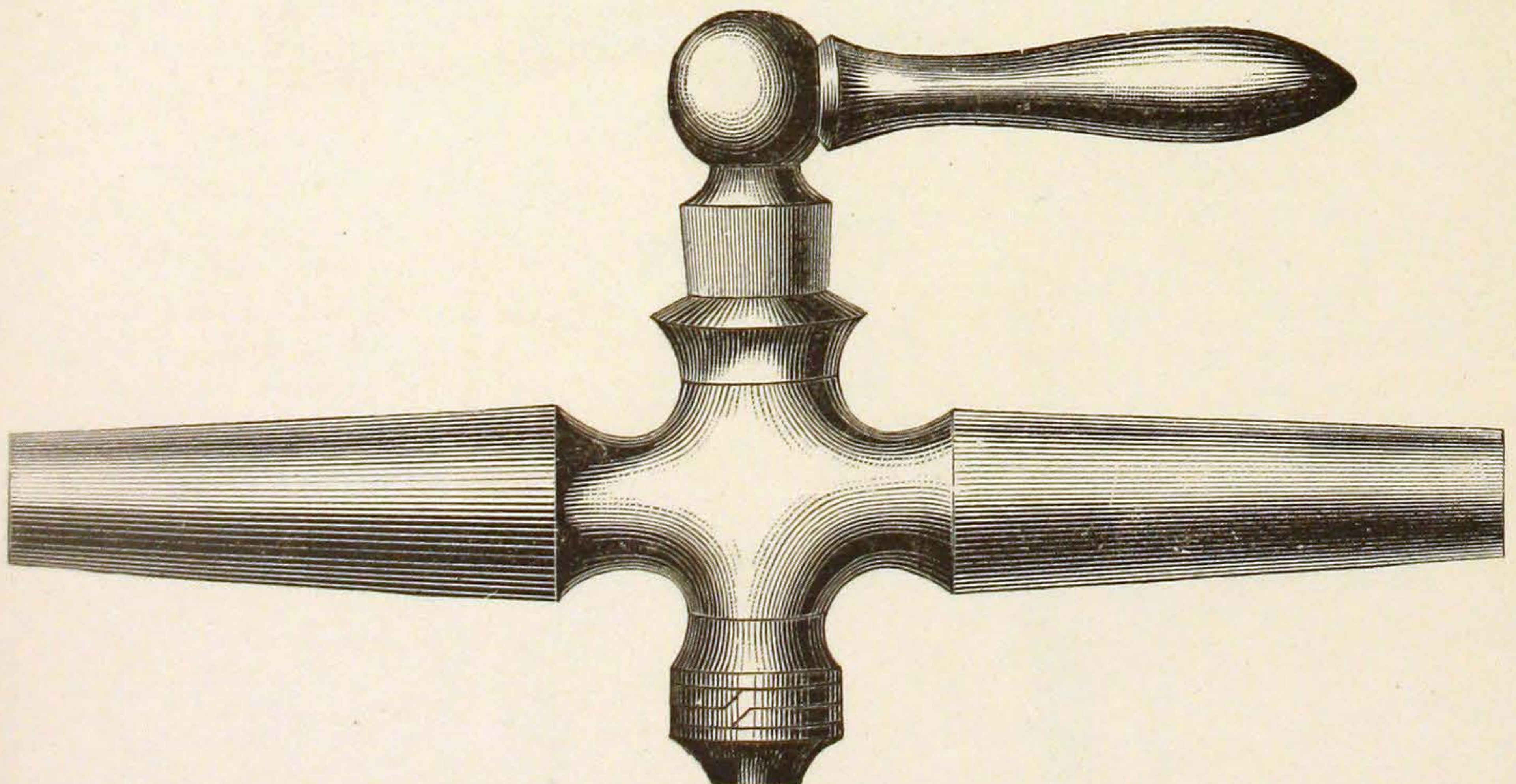
Fig. 619.



Finished and Plated.

CIRCULATING STOP.  
TO SOLDER.

Fig. 620.

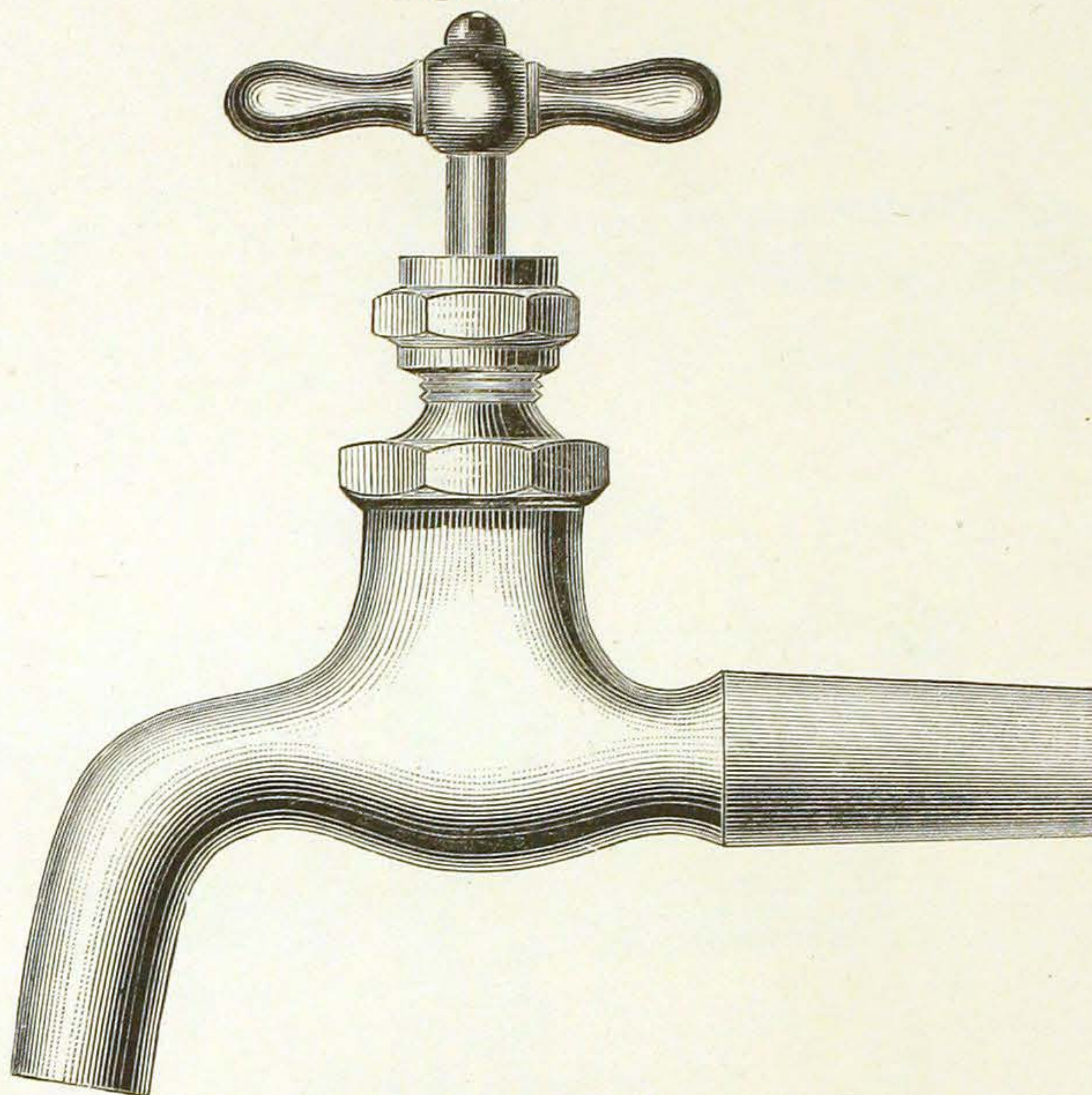


Finished and Plated.



NO. 1, COMPRESSION PLAIN BIBBS.  
TO SOLDER.

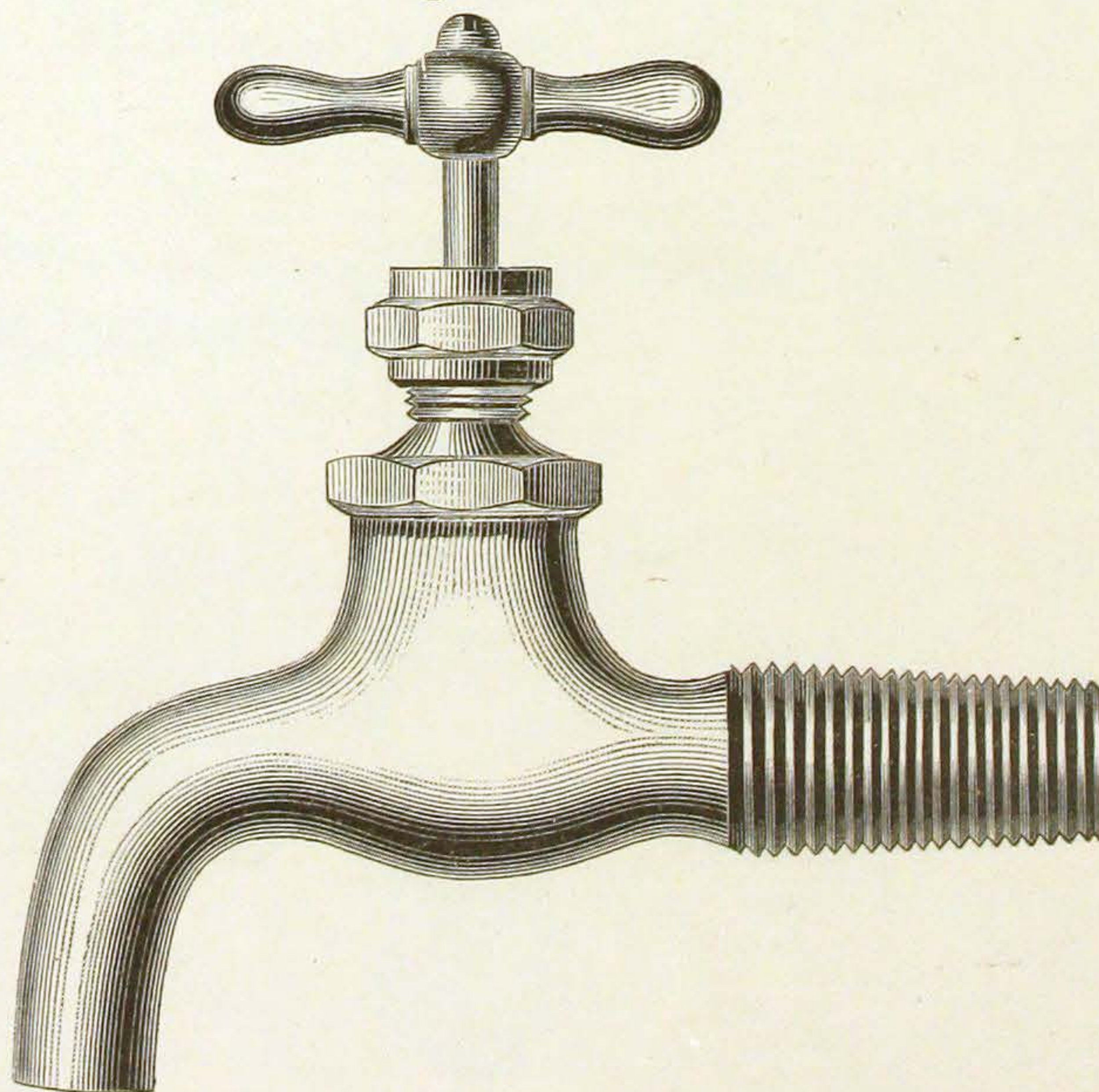
Fig. 621.



Finished and Plated.

SCREWED FOR WOOD.

Fig. 622.

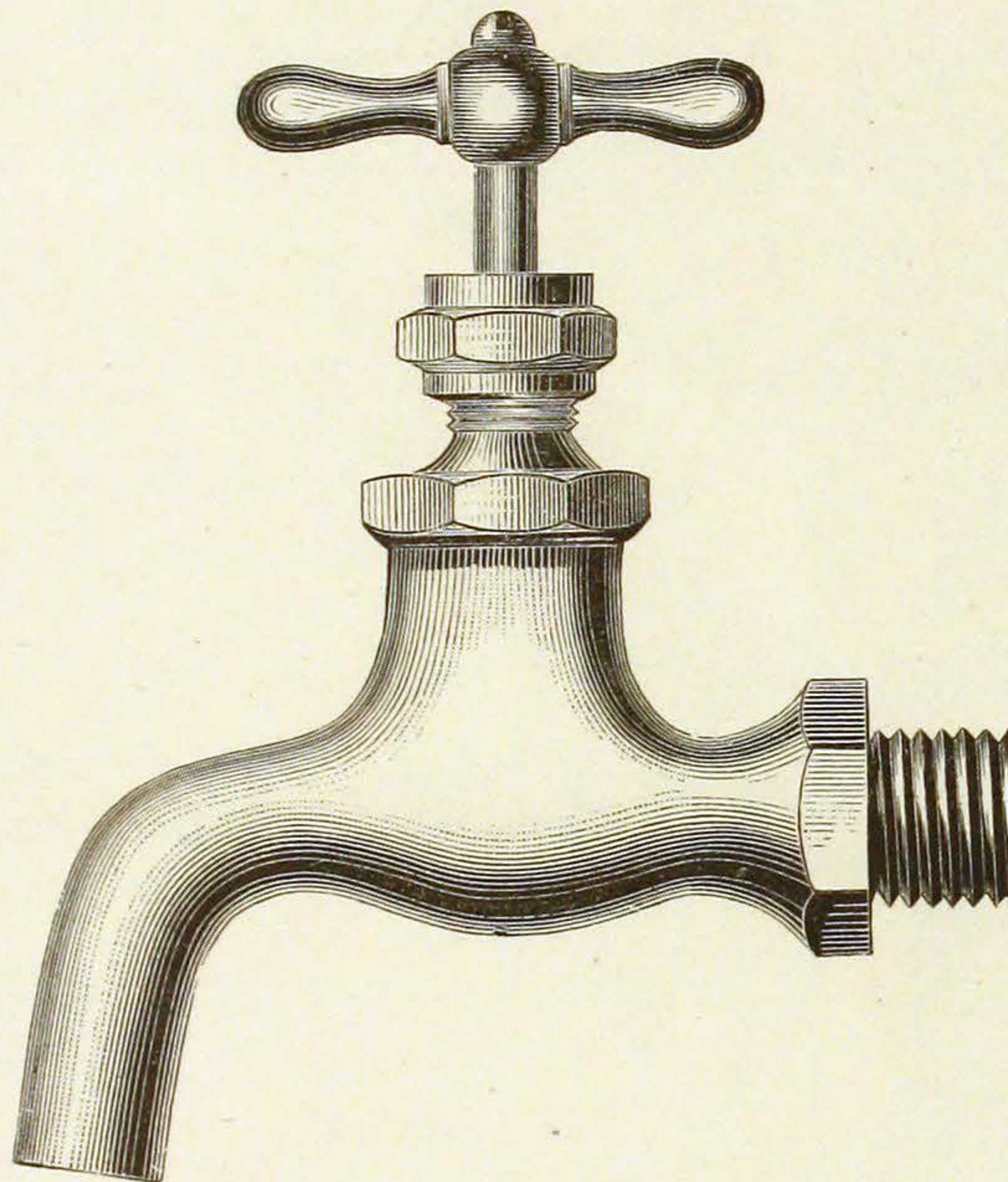


Finished.



NO. 1, COMPRESSION PLAIN BIBBS.  
SCREWED FOR IRON PIPE.

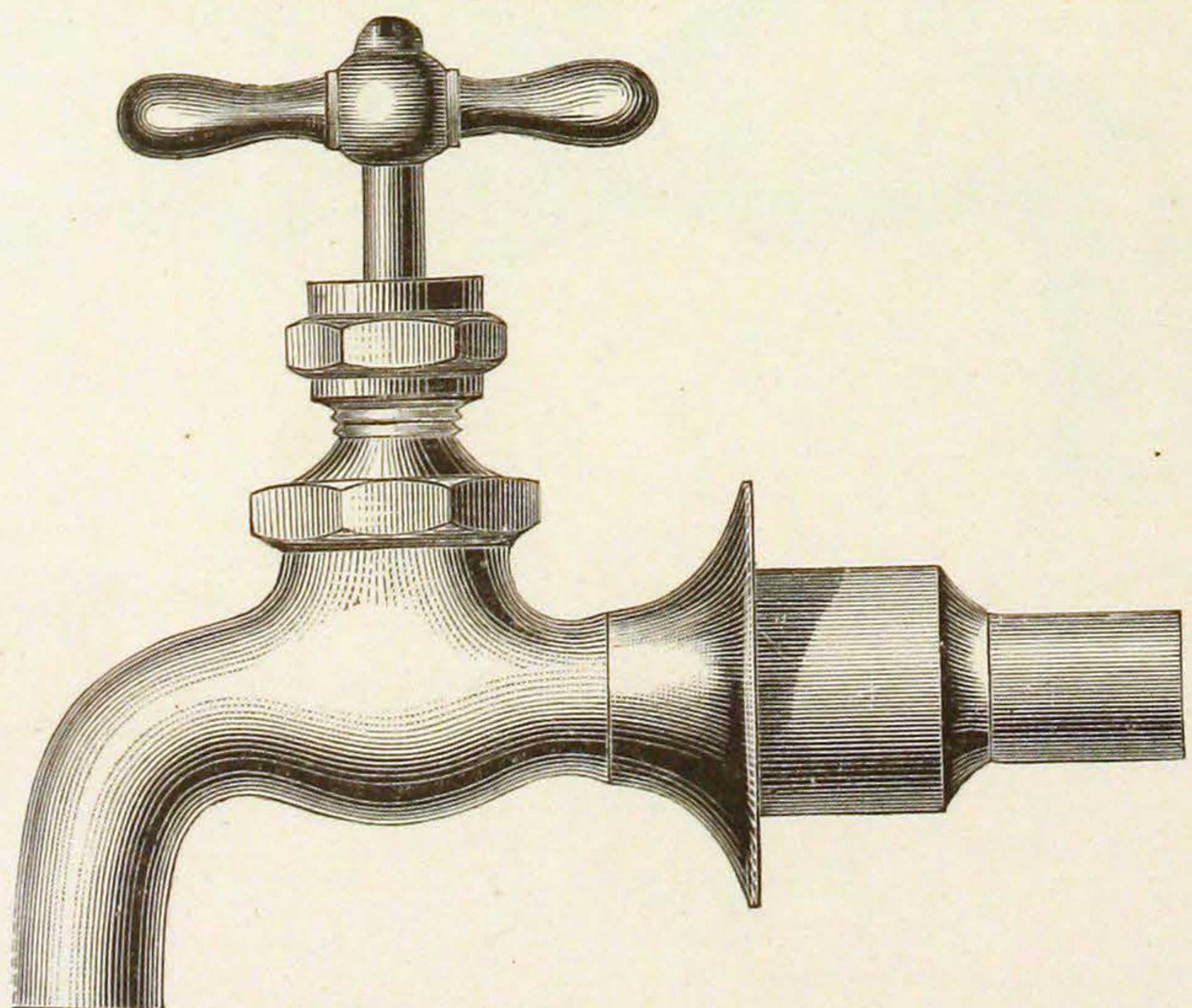
Fig. 623.



Finished and Plated.

FLANGE AND THIMBLE.

Fig. 624.

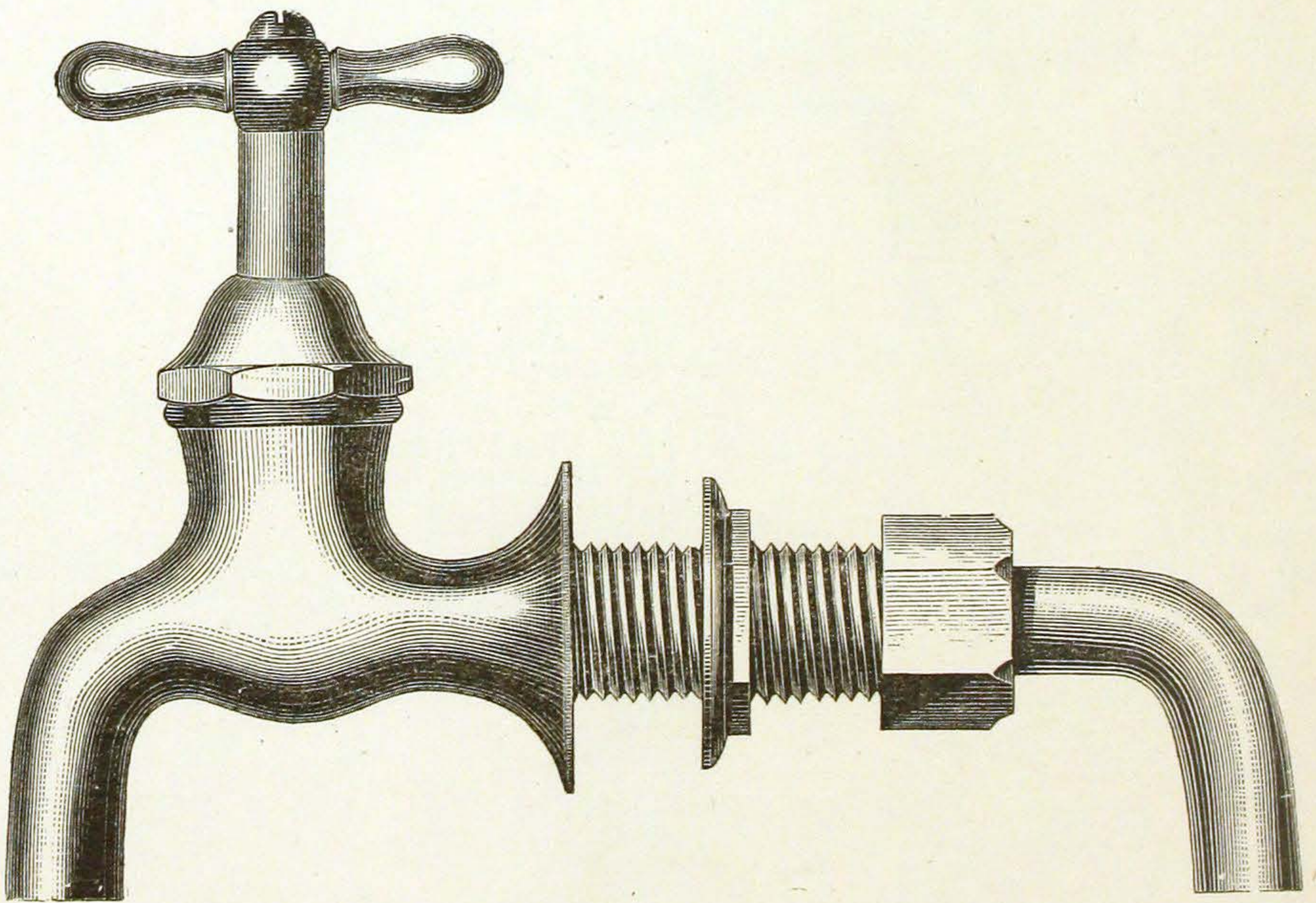


Finished and Plated.



COMPRESSION PLAIN BIBB.  
FLANGE NUT AND BENT COUPLING.

**Fig. 625.**

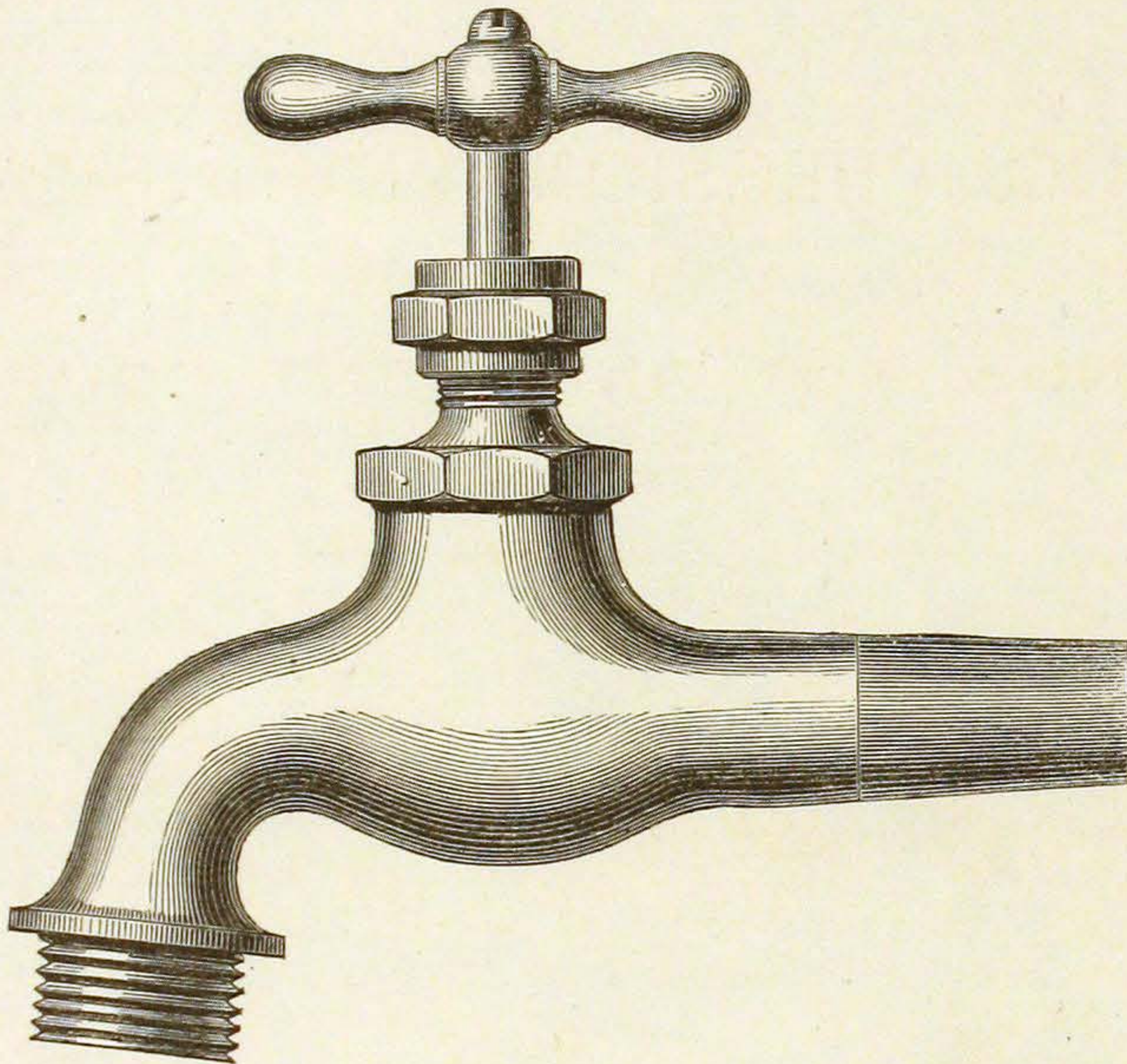


**Finished and Plated.**



NO. 1, COMPRESSION HOSE BIBBS.  
TO SOLDER.

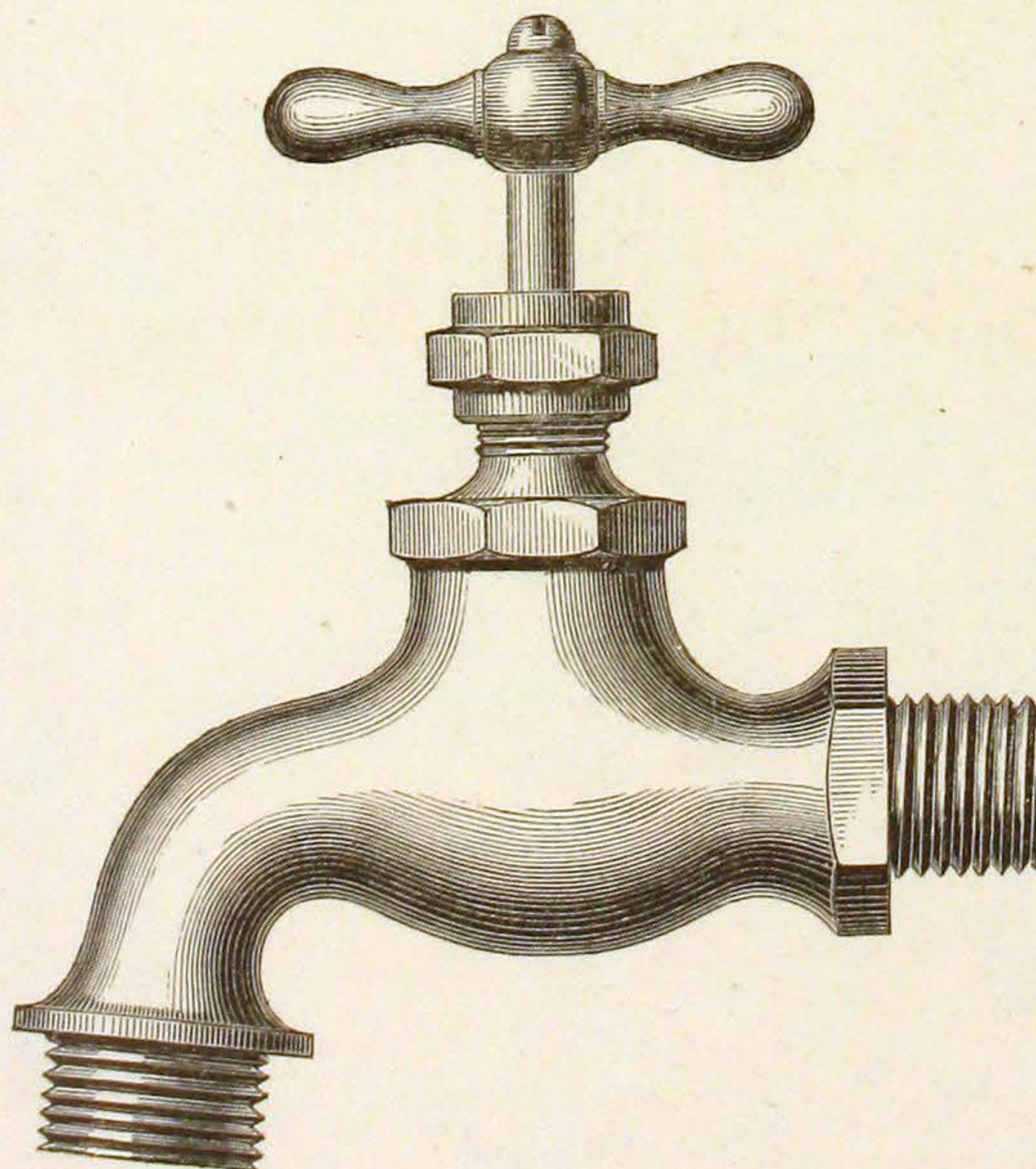
Fig. 626.



Finished.

SCREWED FOR IRON PIPE.

Fig. 627.

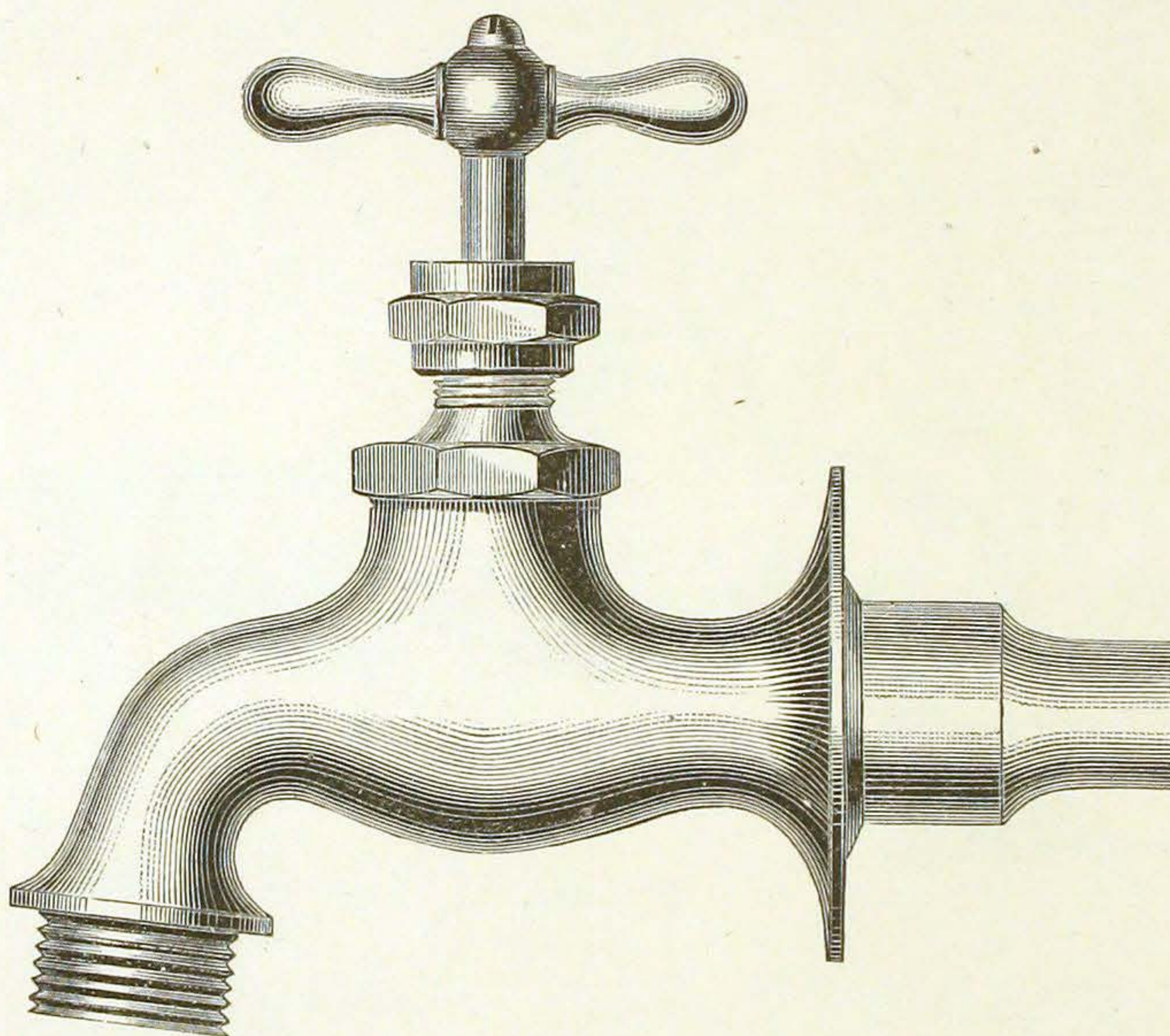


Finished.



NO. 1, COMPRESSION HOSE BIBBS.  
FLANGE AND THIMBLE.

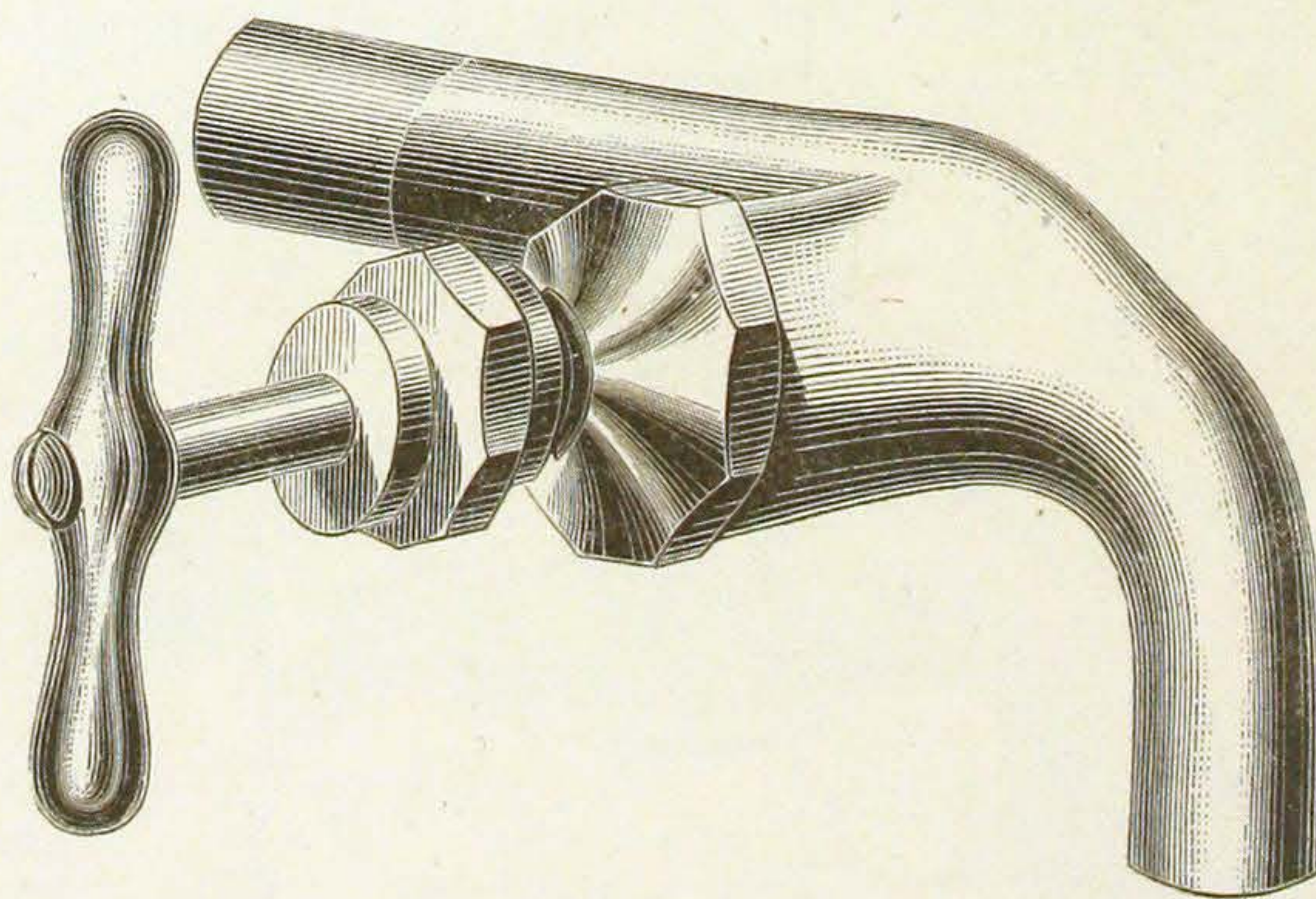
Fig. 628.



Finished.

TO SOLDER.

Fig. 629.

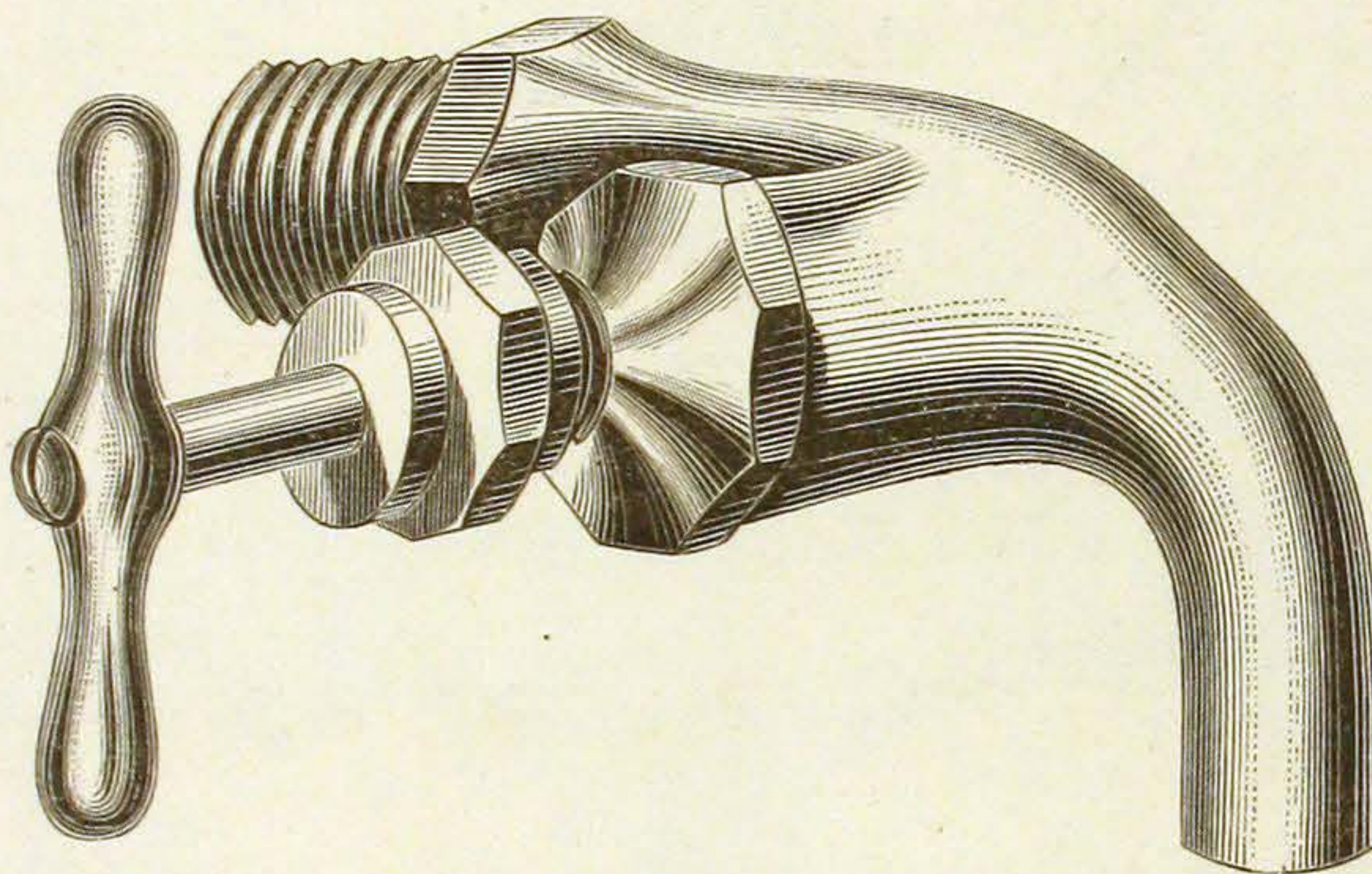


Finished.



NO. 1, COMPRESSION WASH TRAY BIBBS.  
SCREWED FOR IRON PIPE.

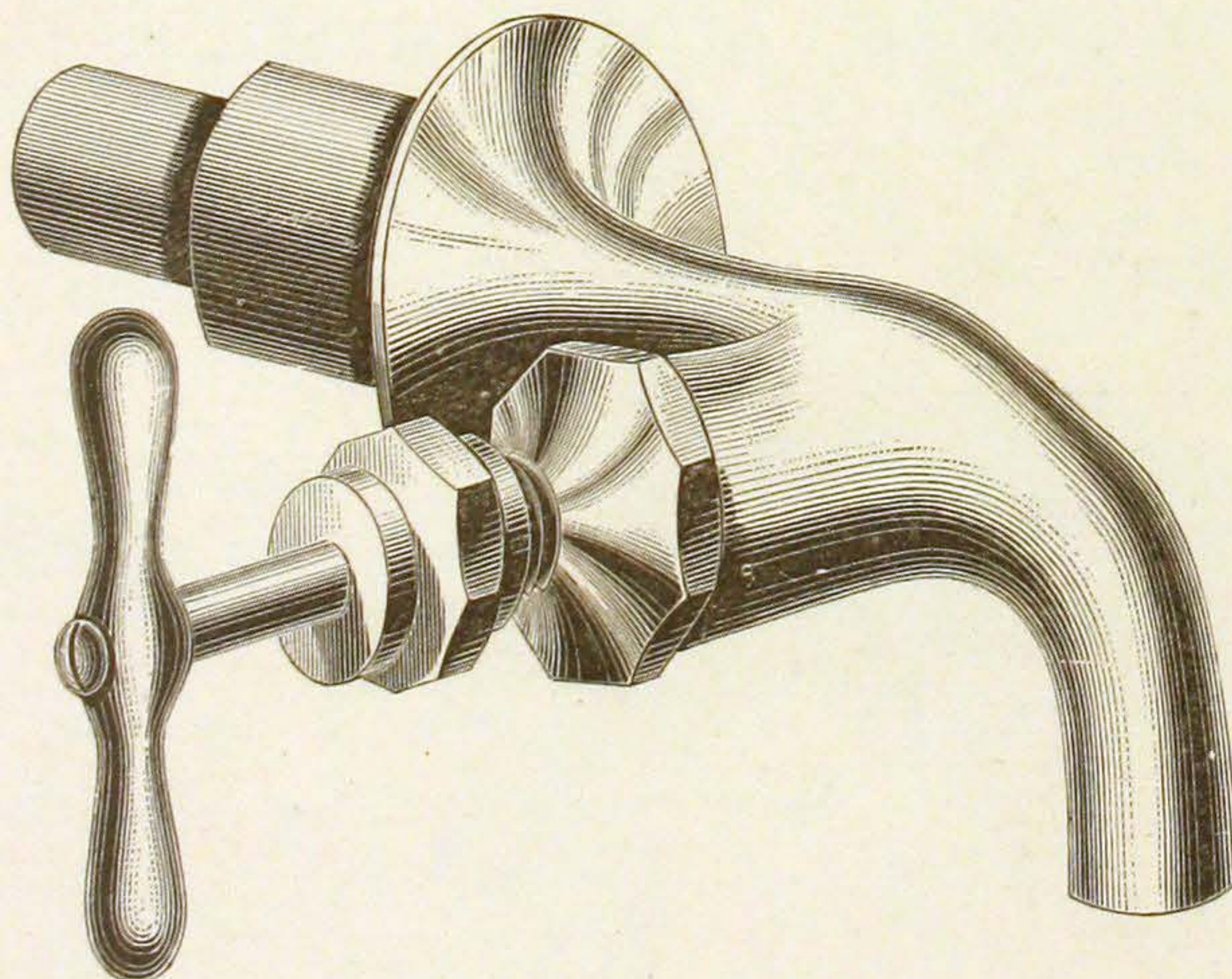
**Fig. 630.**



**Finished.**

FLANGE AND THIMBLE.

**Fig. 631.**

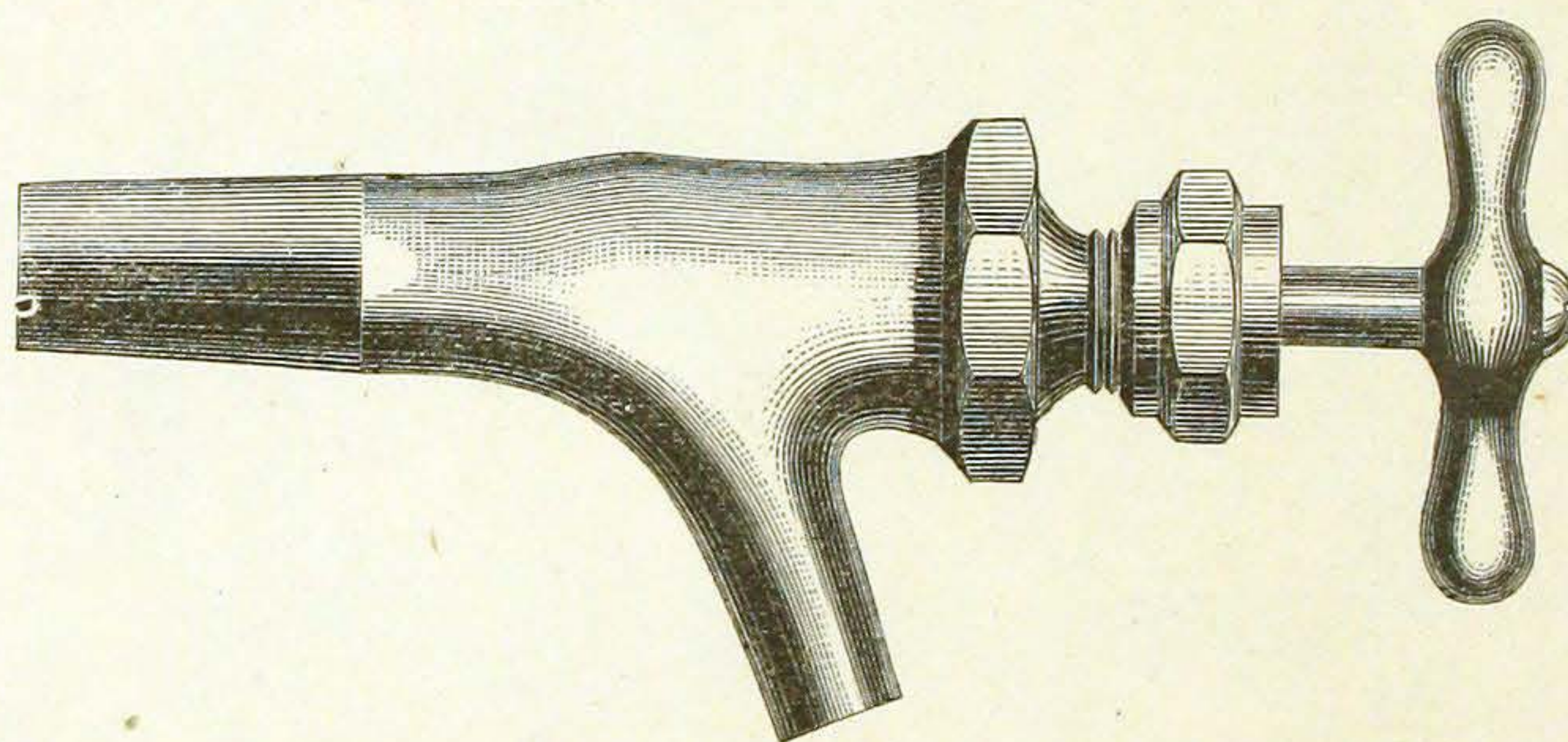


**Finished.**



NO. 1, COMPRESSION,  
STRAIGHT WASH TRAY BIBBS.  
TO SOLDER.

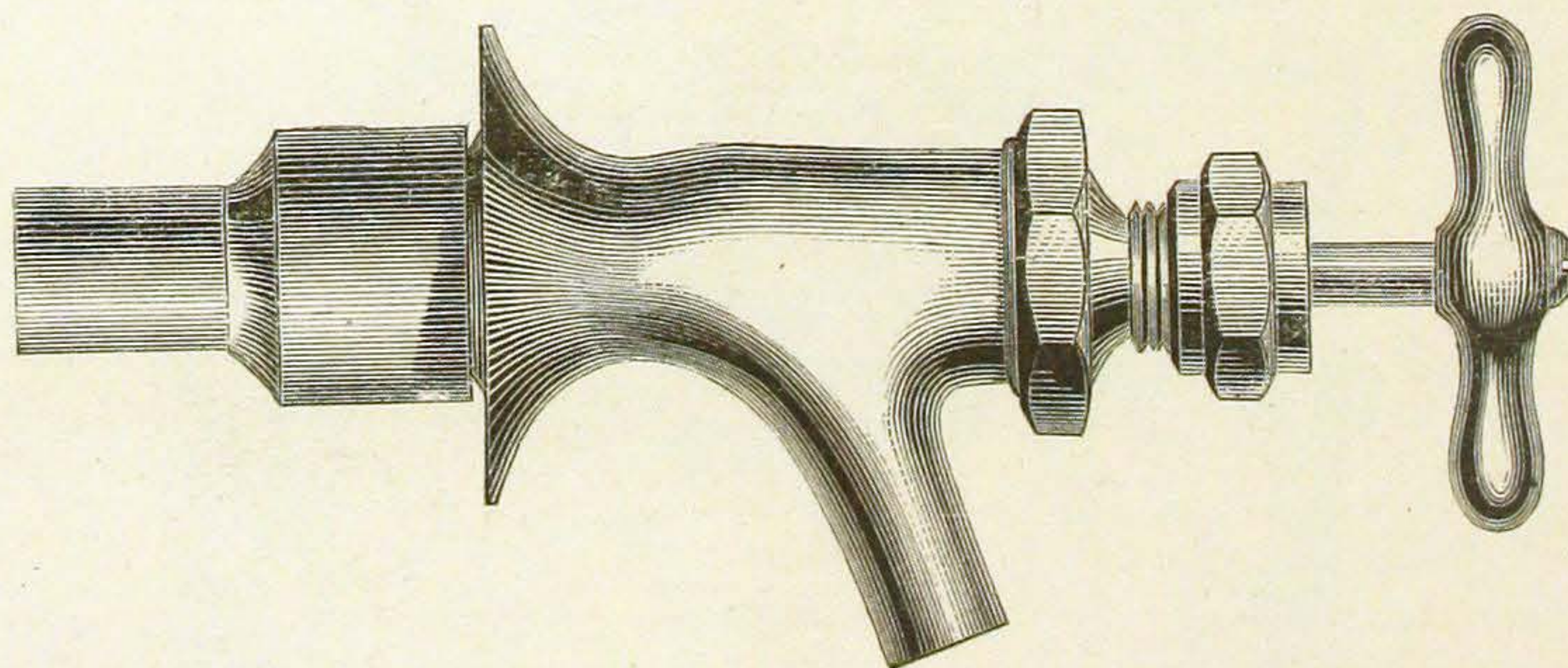
**Fig. 632.**



**Finished.**

FLANGE AND THIMBLE.

**Fig. 633.**

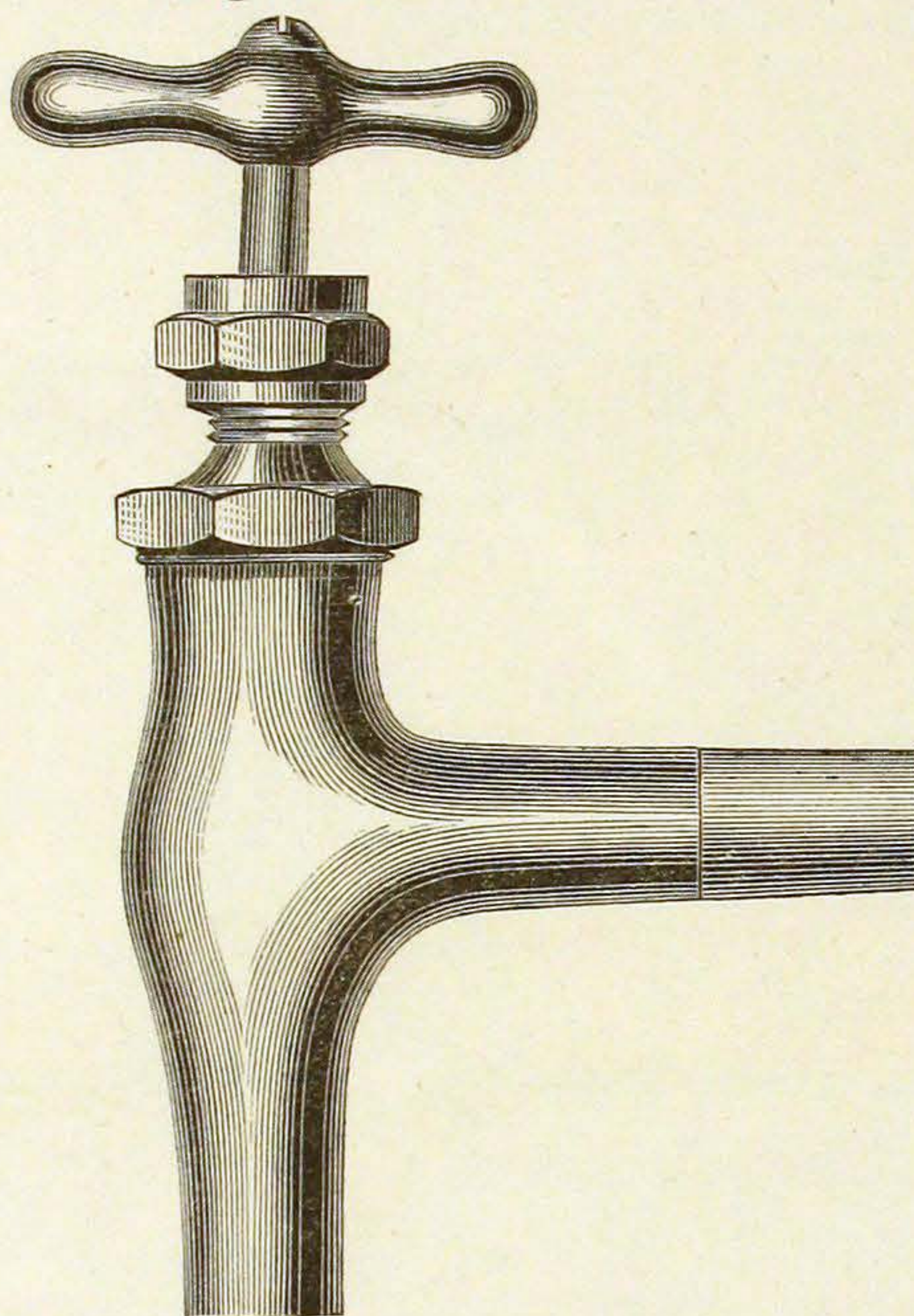


**Finished.**



NO. 1, COMPRESSION BATH BIBBS.  
TO SOLDER.

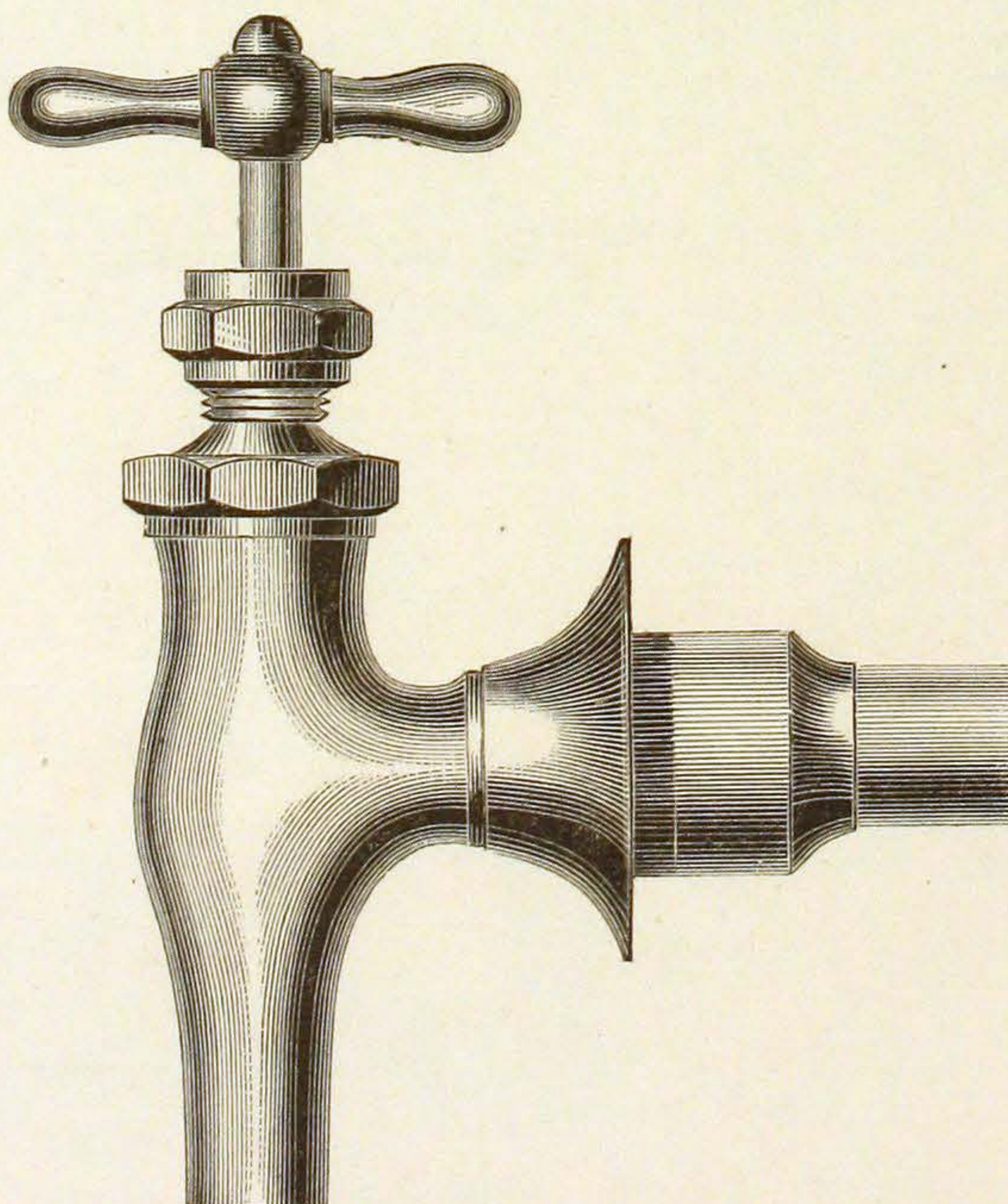
Fig. 634.



Finished and Plated.

FLANGE AND THIMBLE.

Fig. 635.

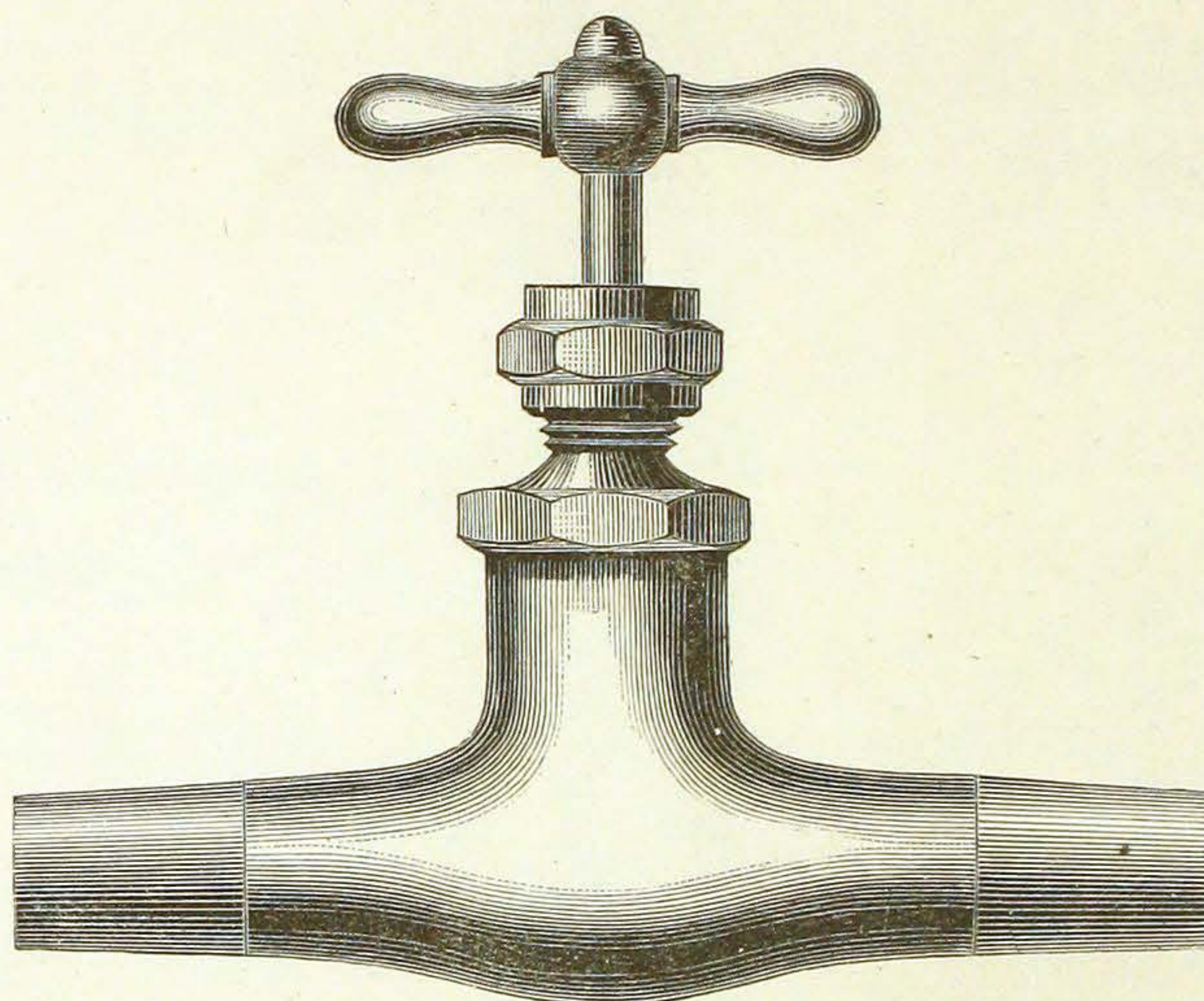


Finished and Plated.



NO. 1, COMPRESSION PLAIN STOPS.  
TO SOLDER.

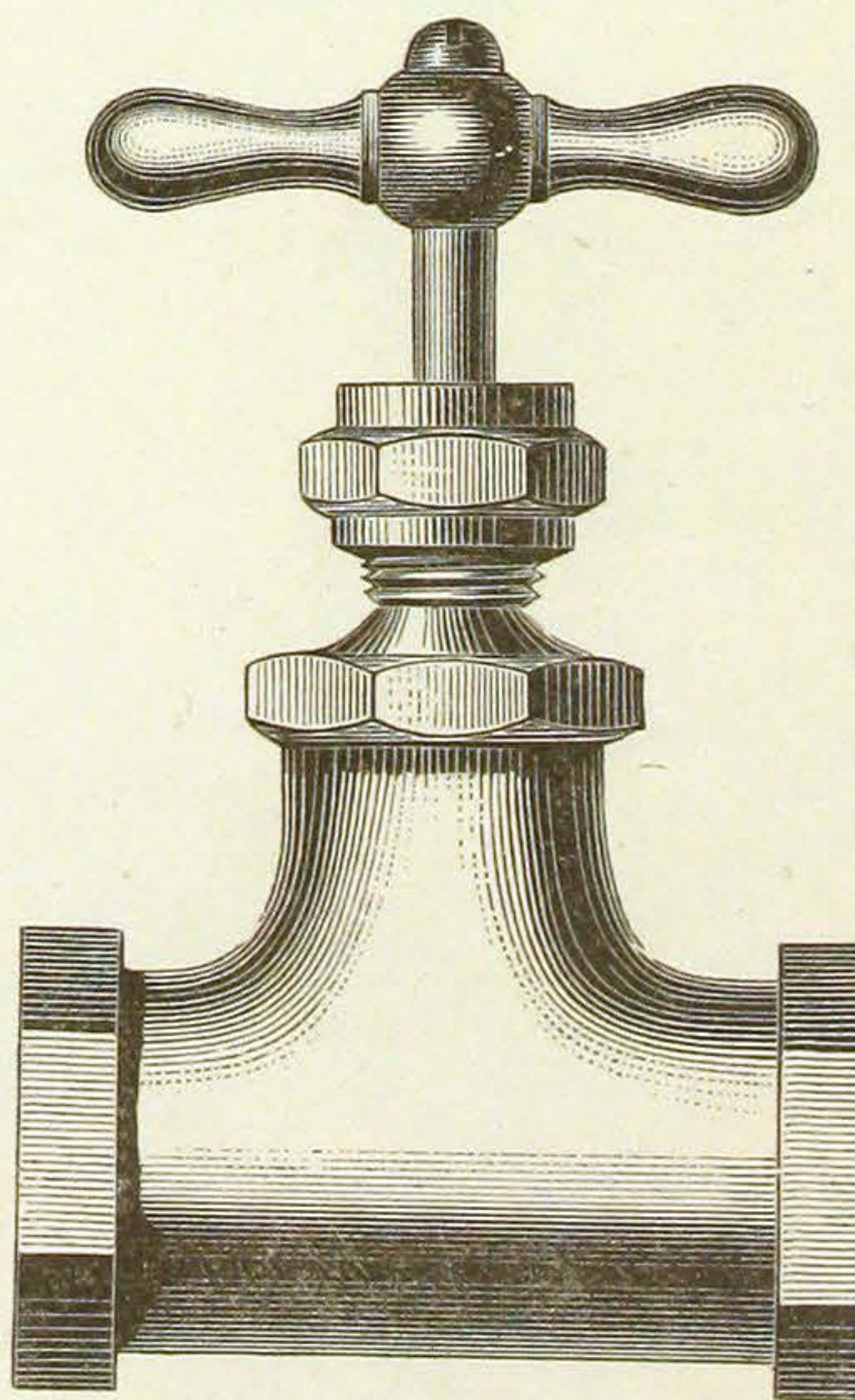
**Fig. 636.**



Rough, Finished and Plated.

SCREWED FOR IRON PIPE.

**Fig. 637.**

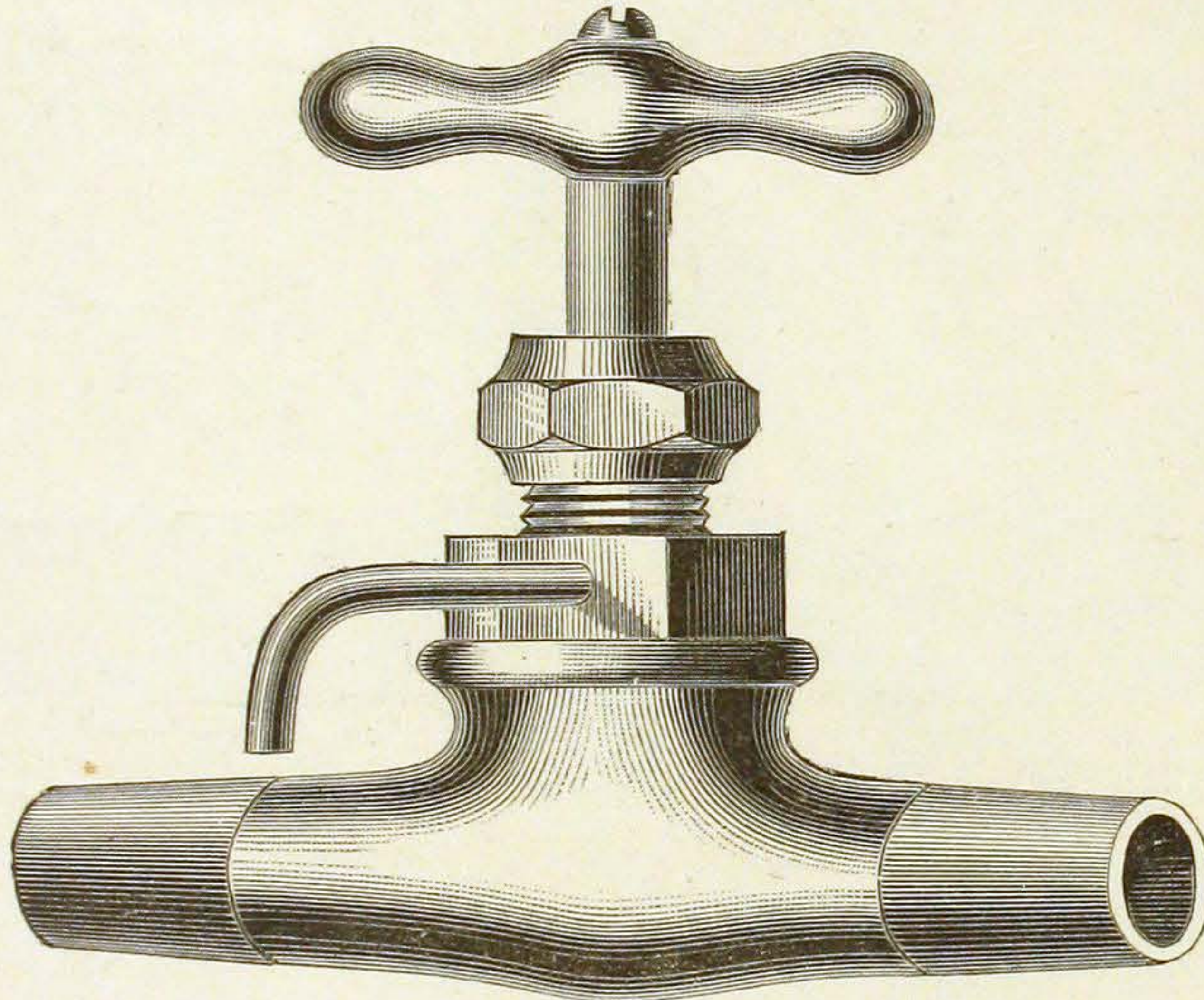


Rough, Finished and Plated.



NO. 1, COMPRESSION  
SHOWER-BATH COCK.  
TO SOLDER.

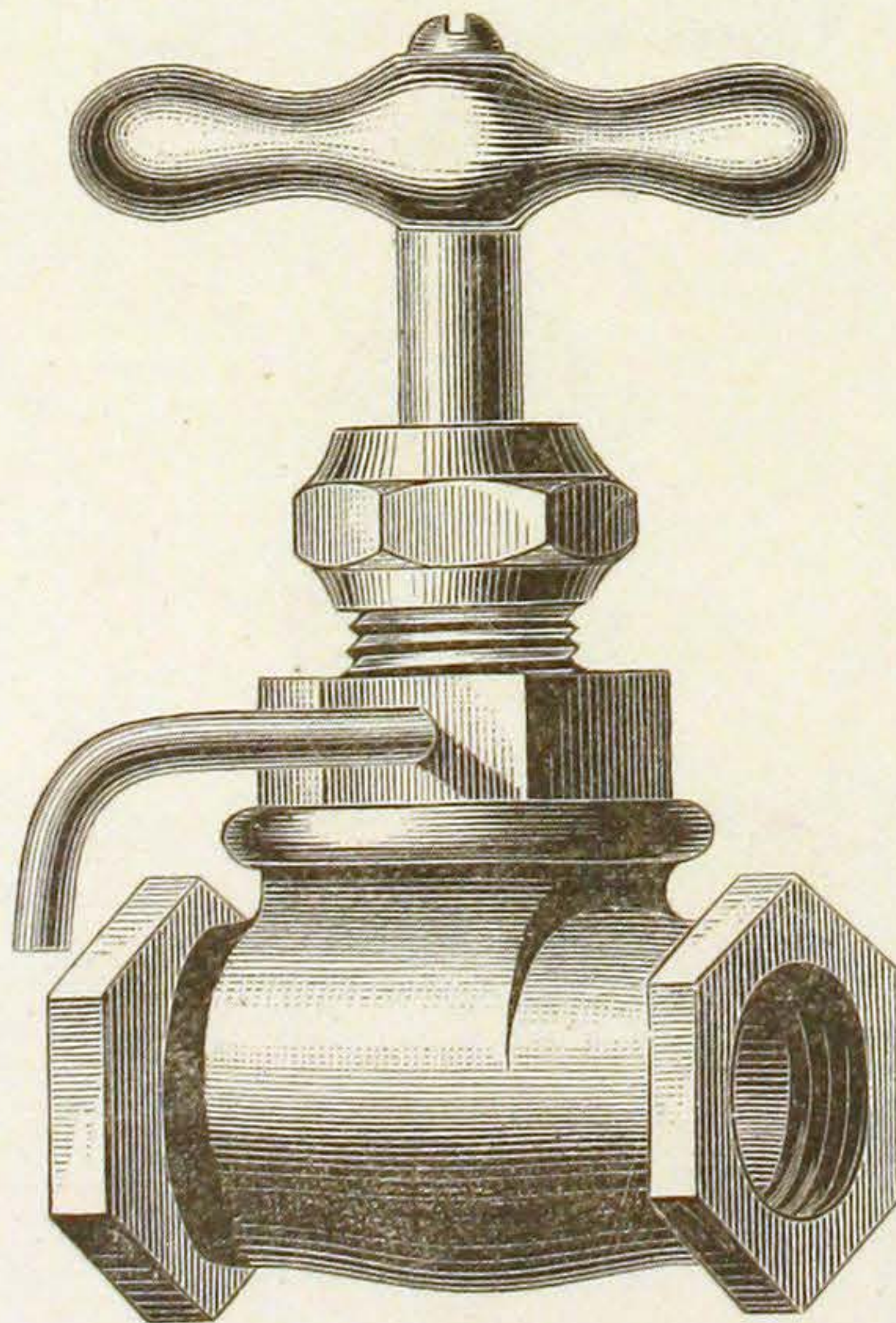
Fig. 638.



Finished and Plated.

SCREWED FOR IRON PIPE.

Fig. 639.

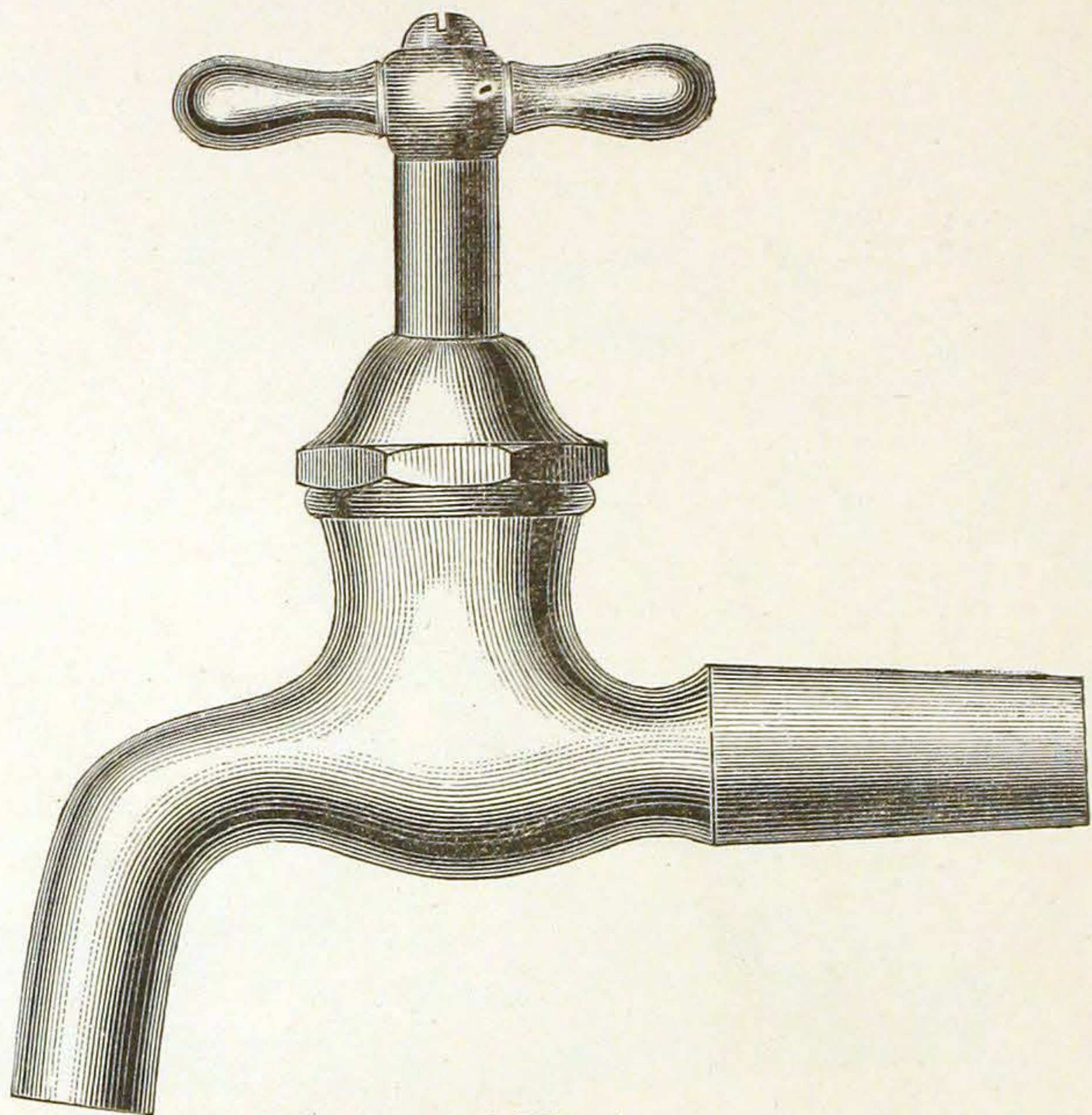


Finished and Plated.



NO. 2, COMPRESSION PLAIN BIBBS.  
TO SOLDER.

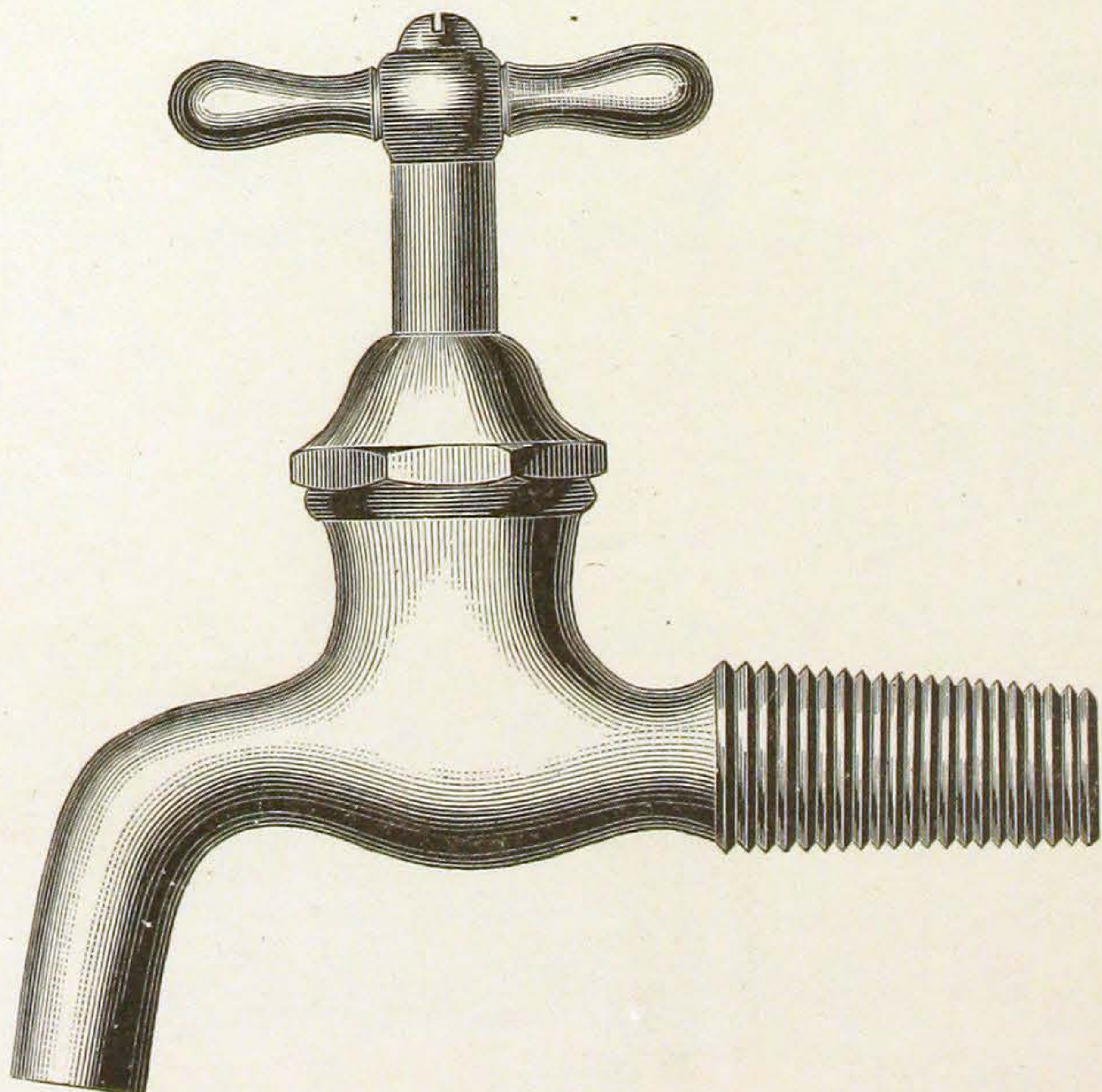
Fig. 640.



Finished and Plated.

SCREWED FOR WOOD.

Fig. 641.

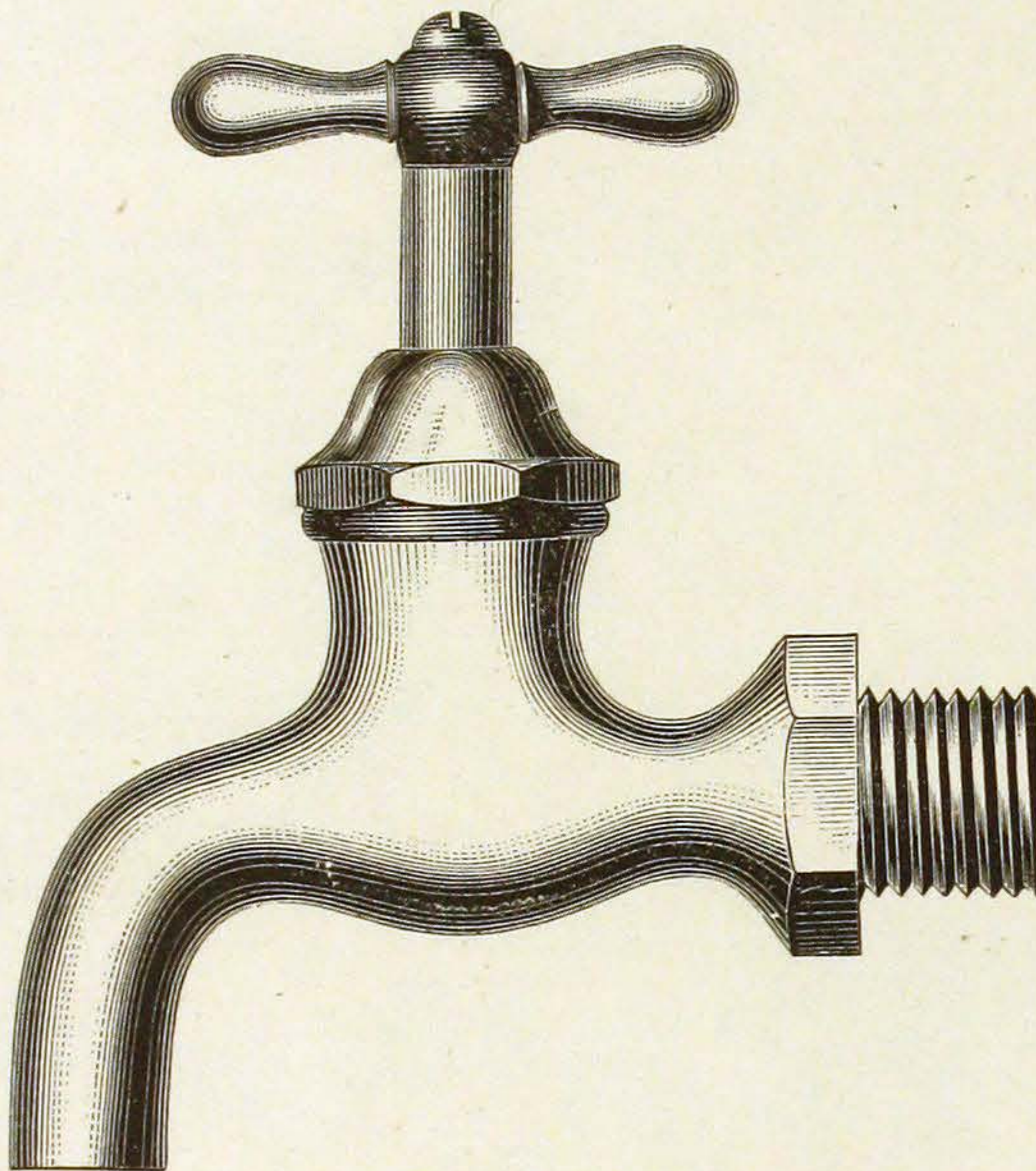


Finished.



NO. 2, COMPRESSION PLAIN BIBBS.  
SCREWED FOR IRON PIPE.

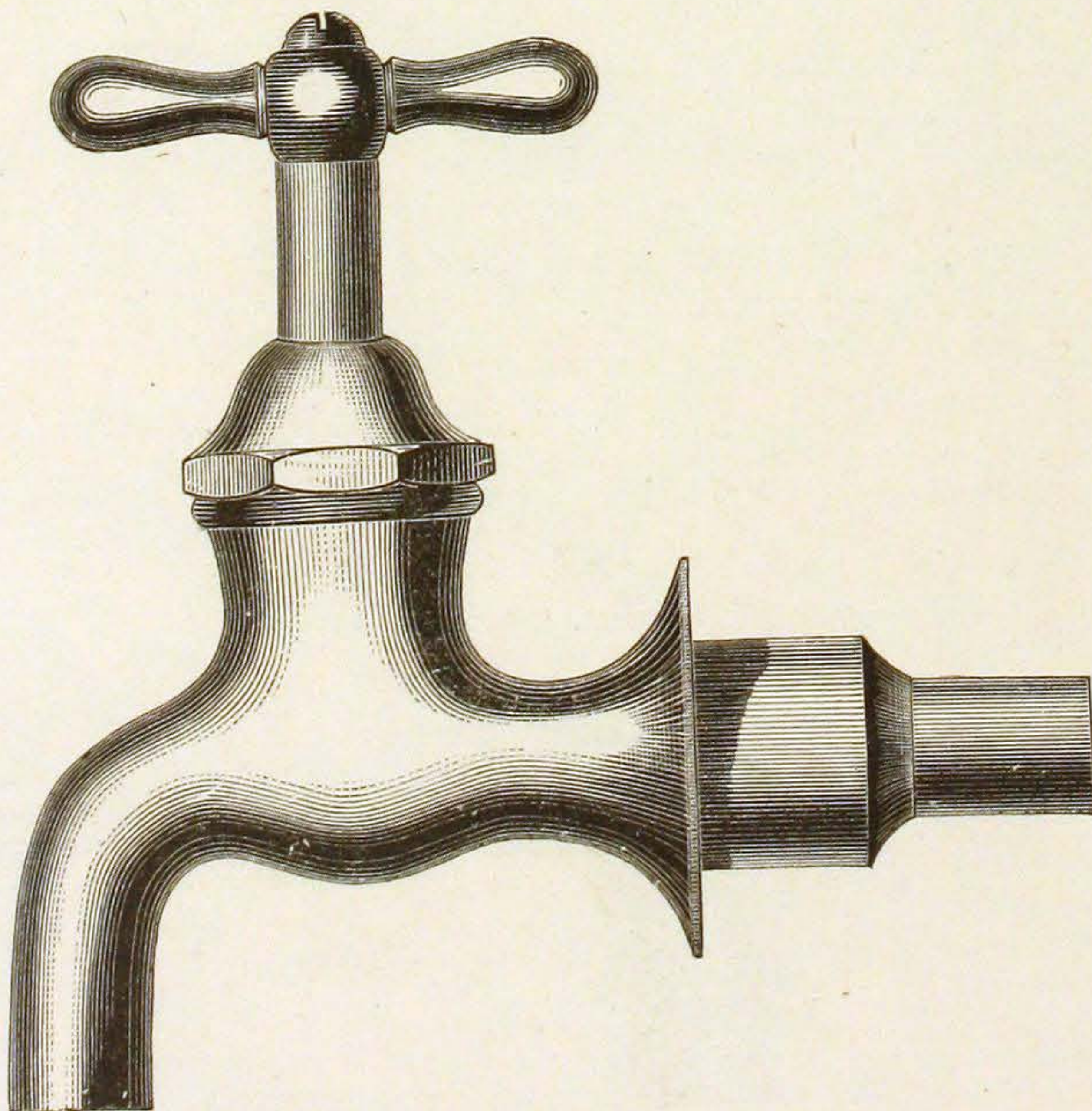
Fig. 642.



Finished.

FLANGE AND THIMBLE.

Fig. 643.

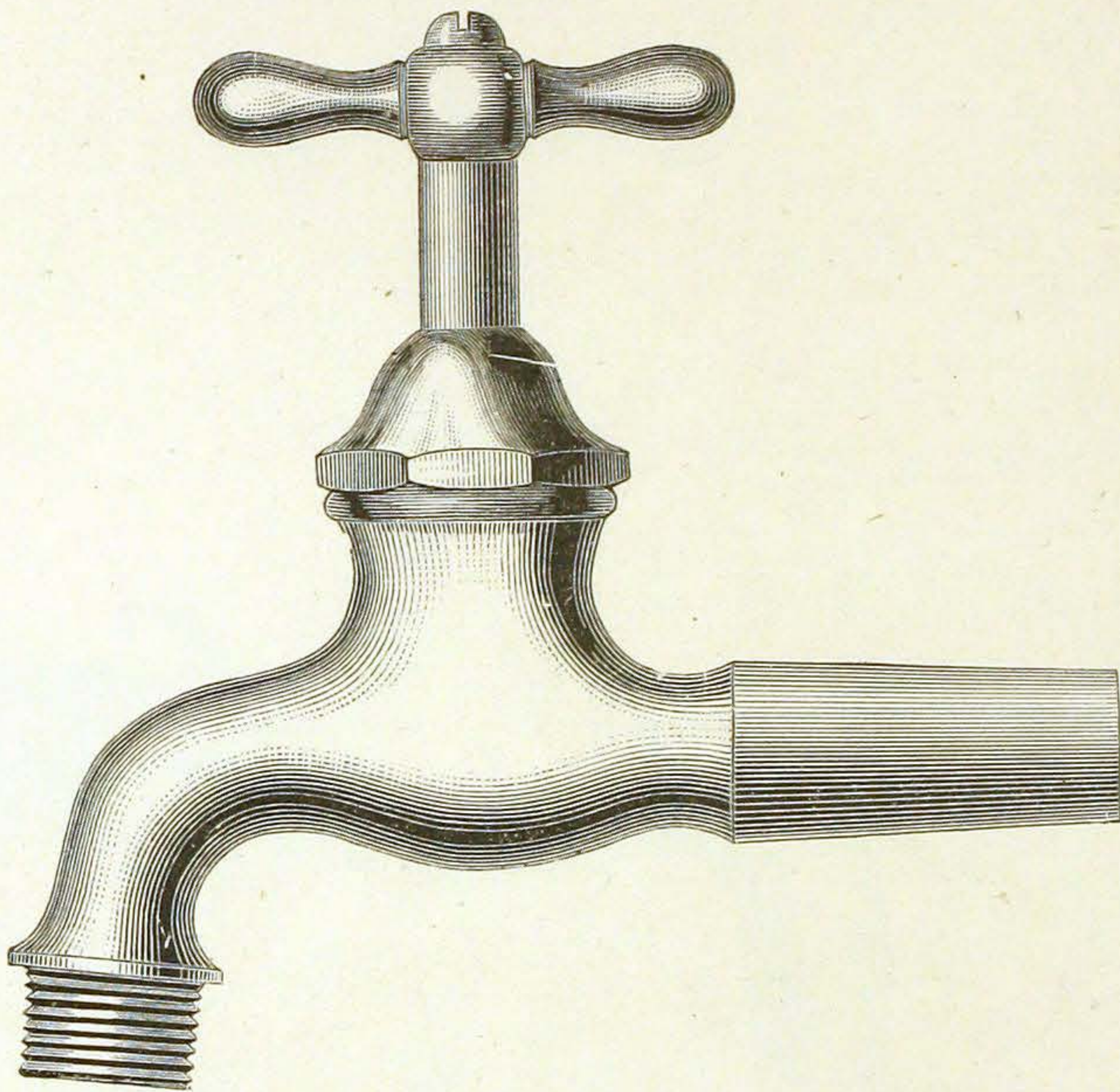


Finished and Plated.



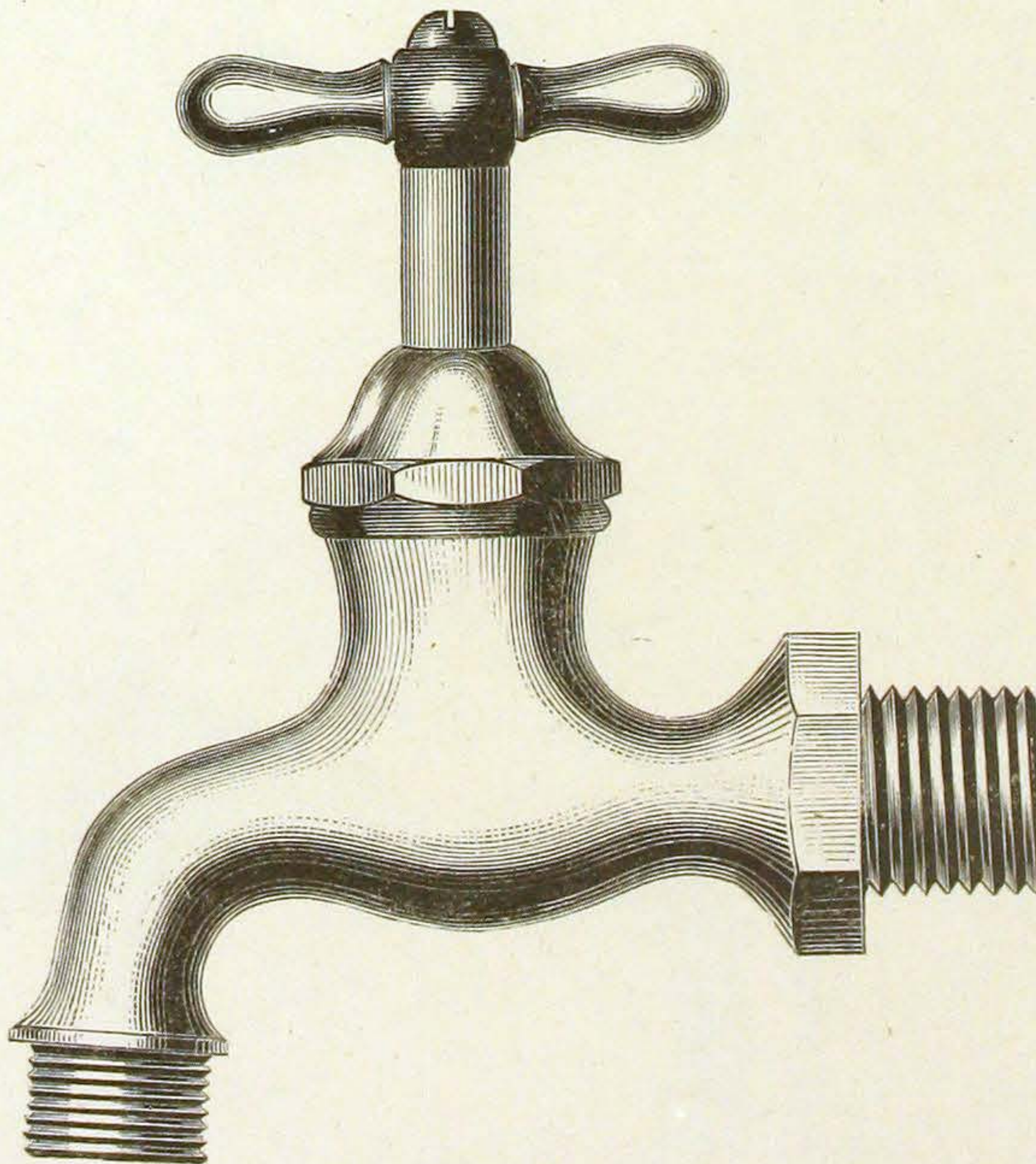
NO. 2, COMPRESSION HOSE BIBBS.  
TO SOLDER.

Fig. 644.



Finished.

SCREWED FOR IRON PIPE.  
Fig. 645.

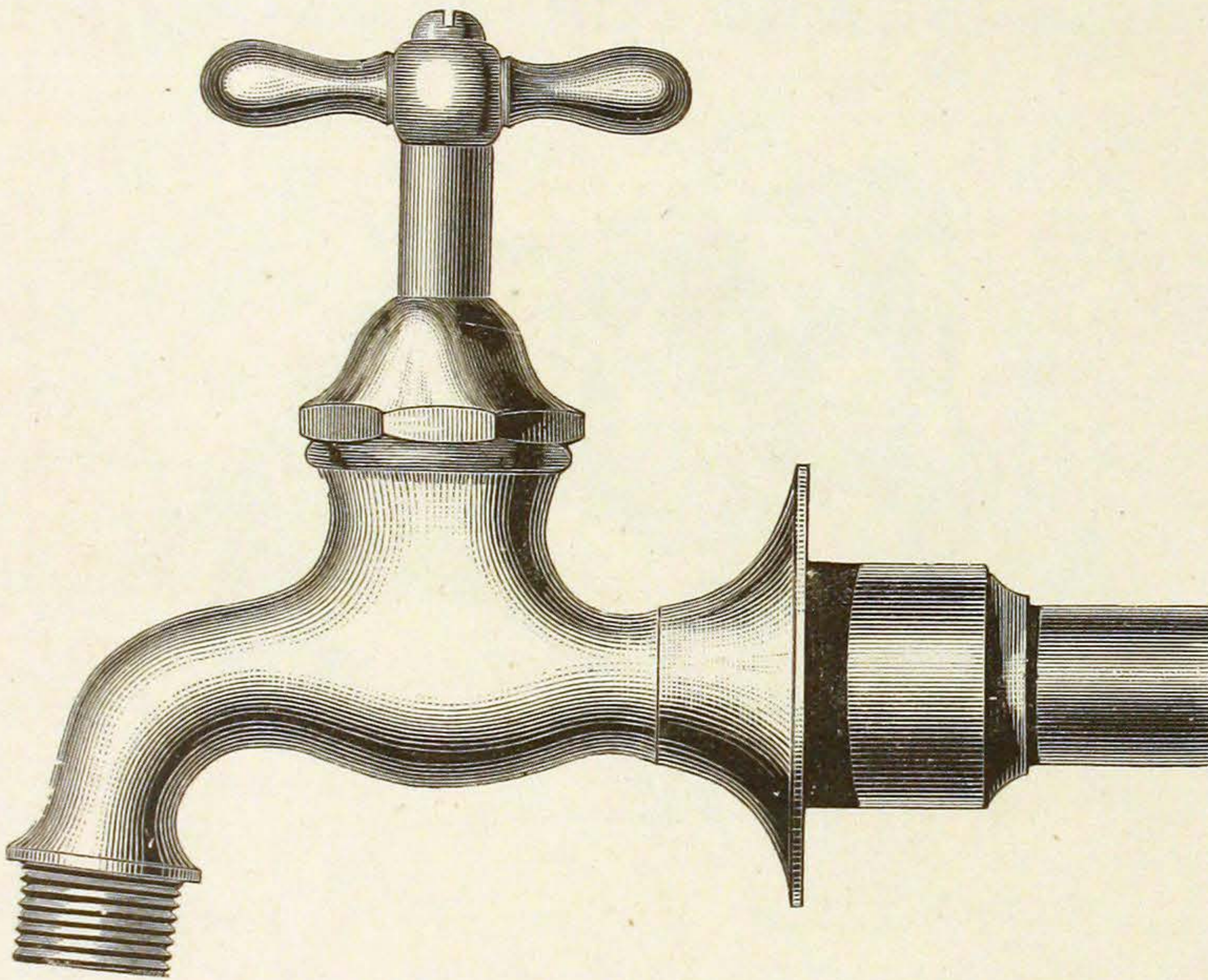


Finished.



NO. 2, COMPRESSION HOSE BIBB.  
FLANGE AND THIMBLE.

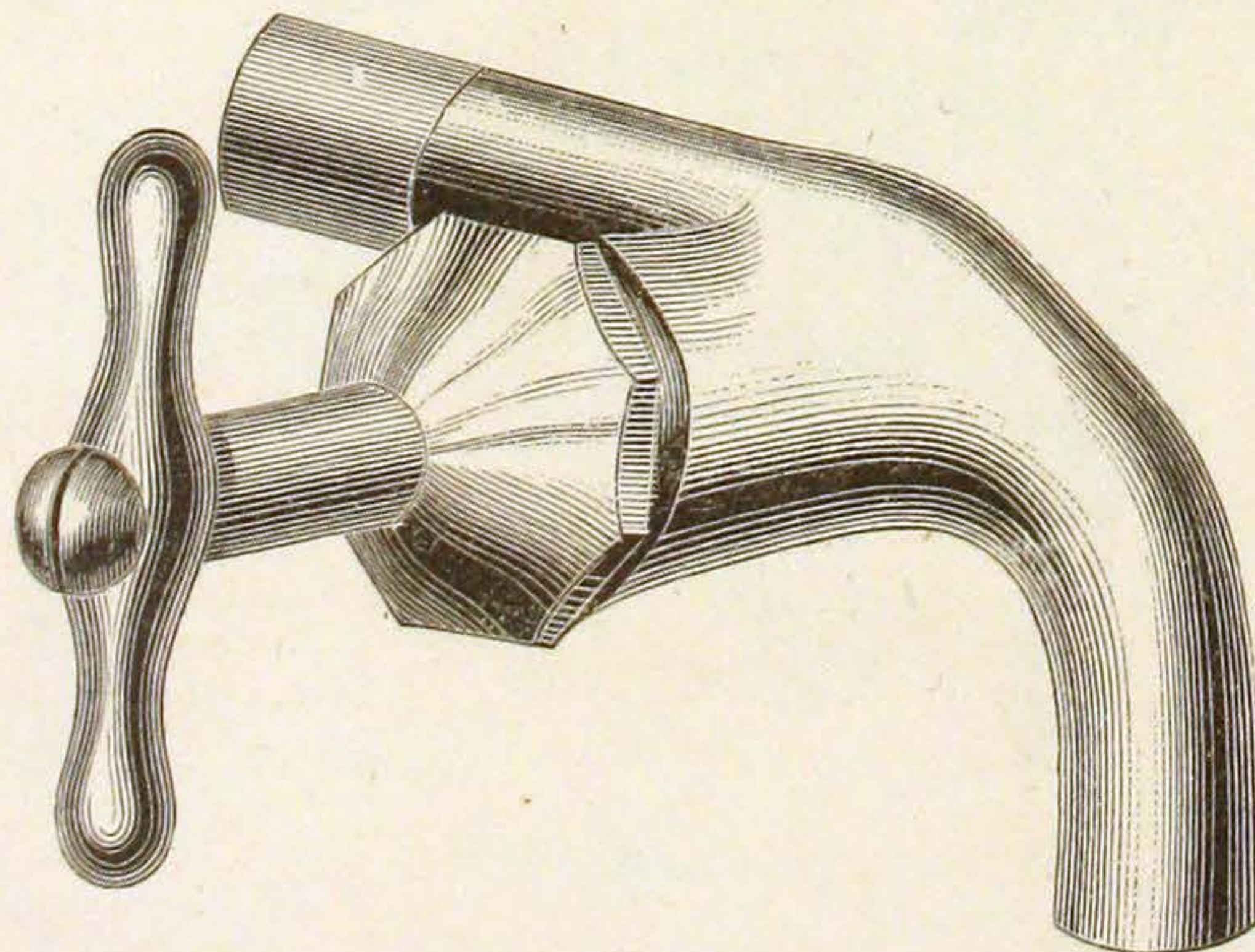
Fig. 646.



Finished.

NO. 2, COMPRESSION WASH TRAY BIBB.  
TO SOLDER.

Fig. 647.

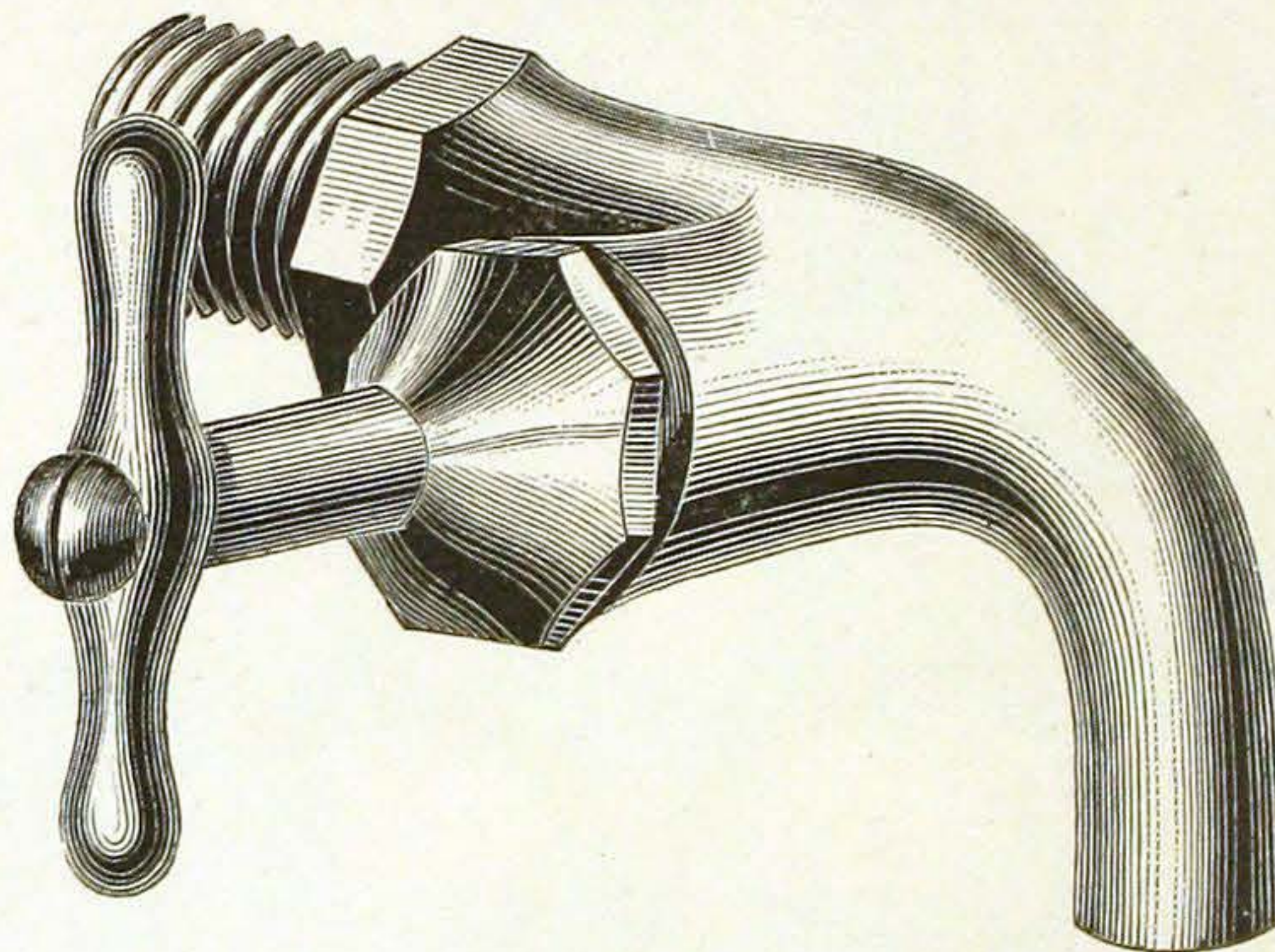


Finished.



NO. 2, COMPRESSION WASH TRAY BIBBS.  
SCREWED FOR IRON PIPE.

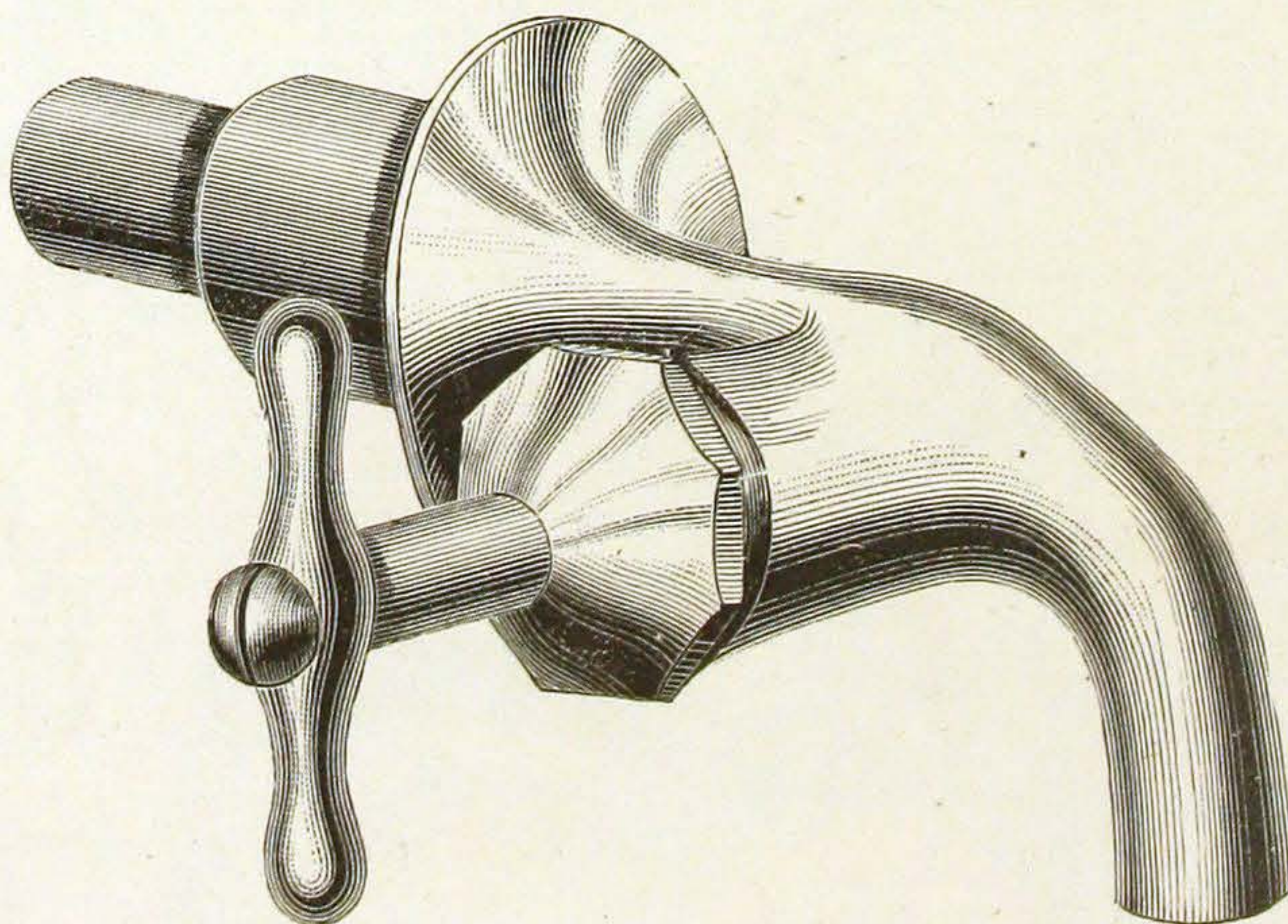
**Fig. 648.**



**Finished.**

FLANGE AND THIMBLE.

**Fig. 649.**

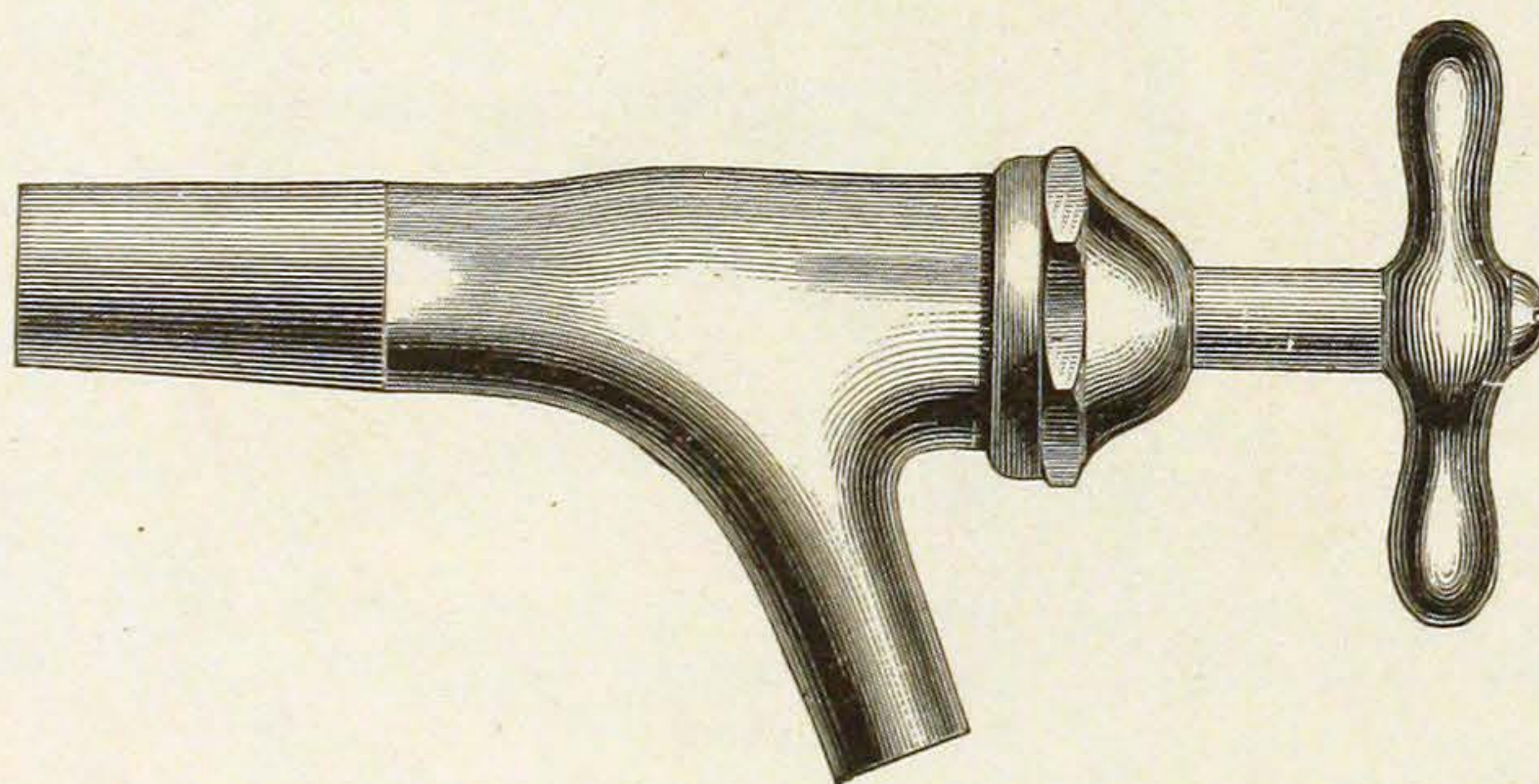


**Finished.**



NO. 2, COMPRESSION,  
STRAIGHT WASH TRAY BIBBS.  
TO SOLDER.

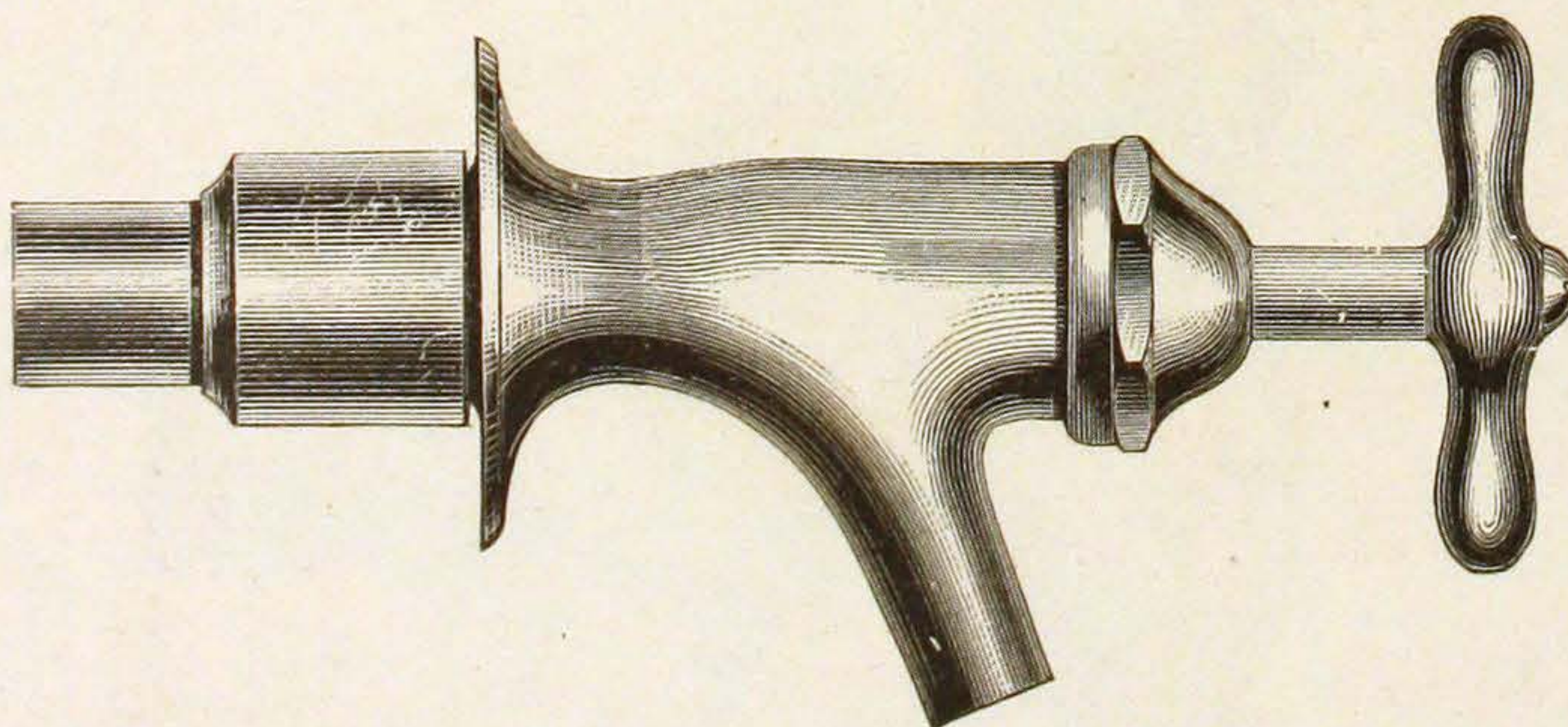
**Fig. 650.**



**Finished.**

FLANGE AND THIMBLE.

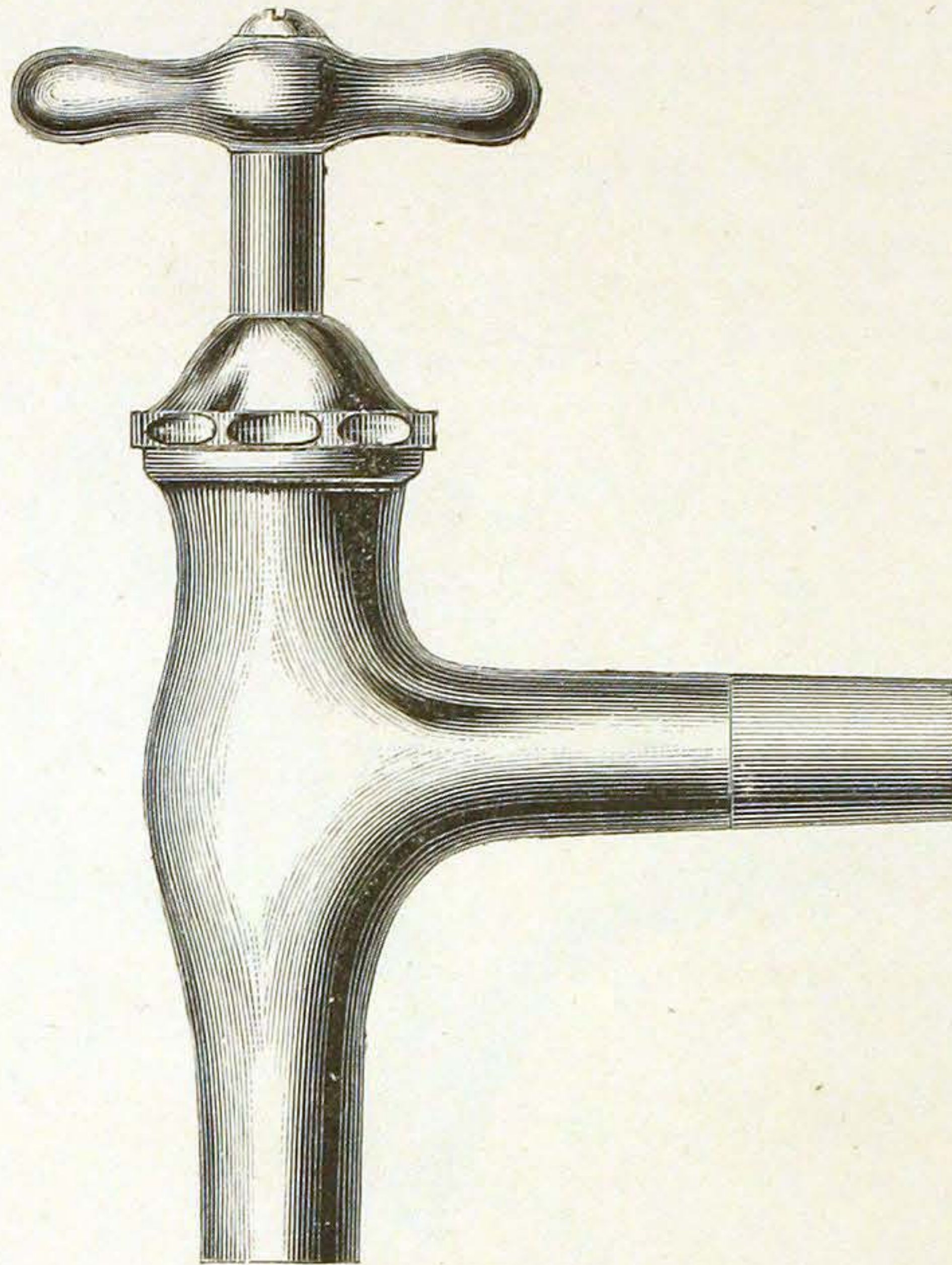
**Fig. 651.**



**Finished.**

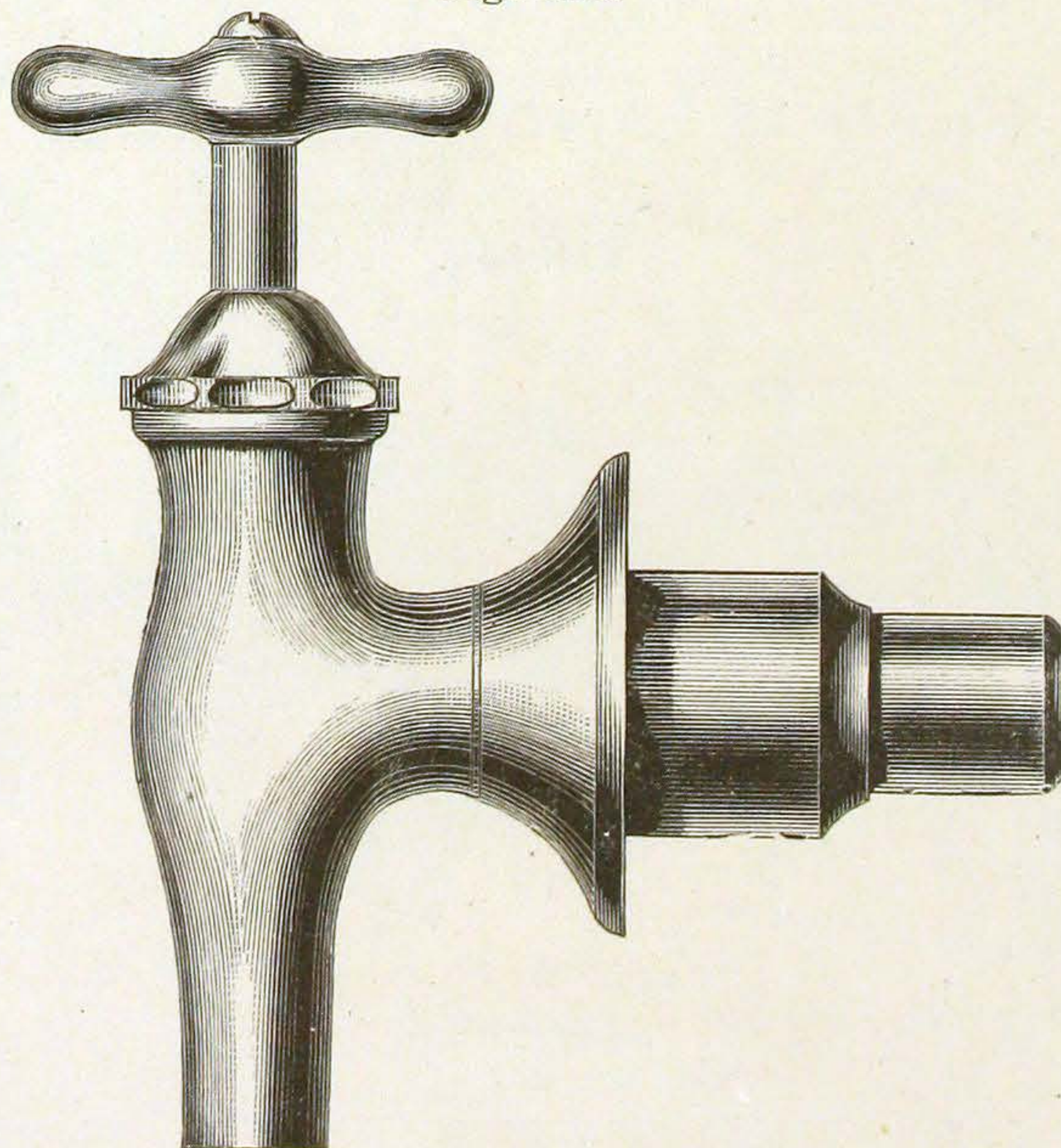


NO. 2, COMPRESSION BATH BIBBS.  
TO SOLDER.  
Fig. 652.



Finished and Plated.

FLANGE AND THIMBLE.  
Fig. 653.

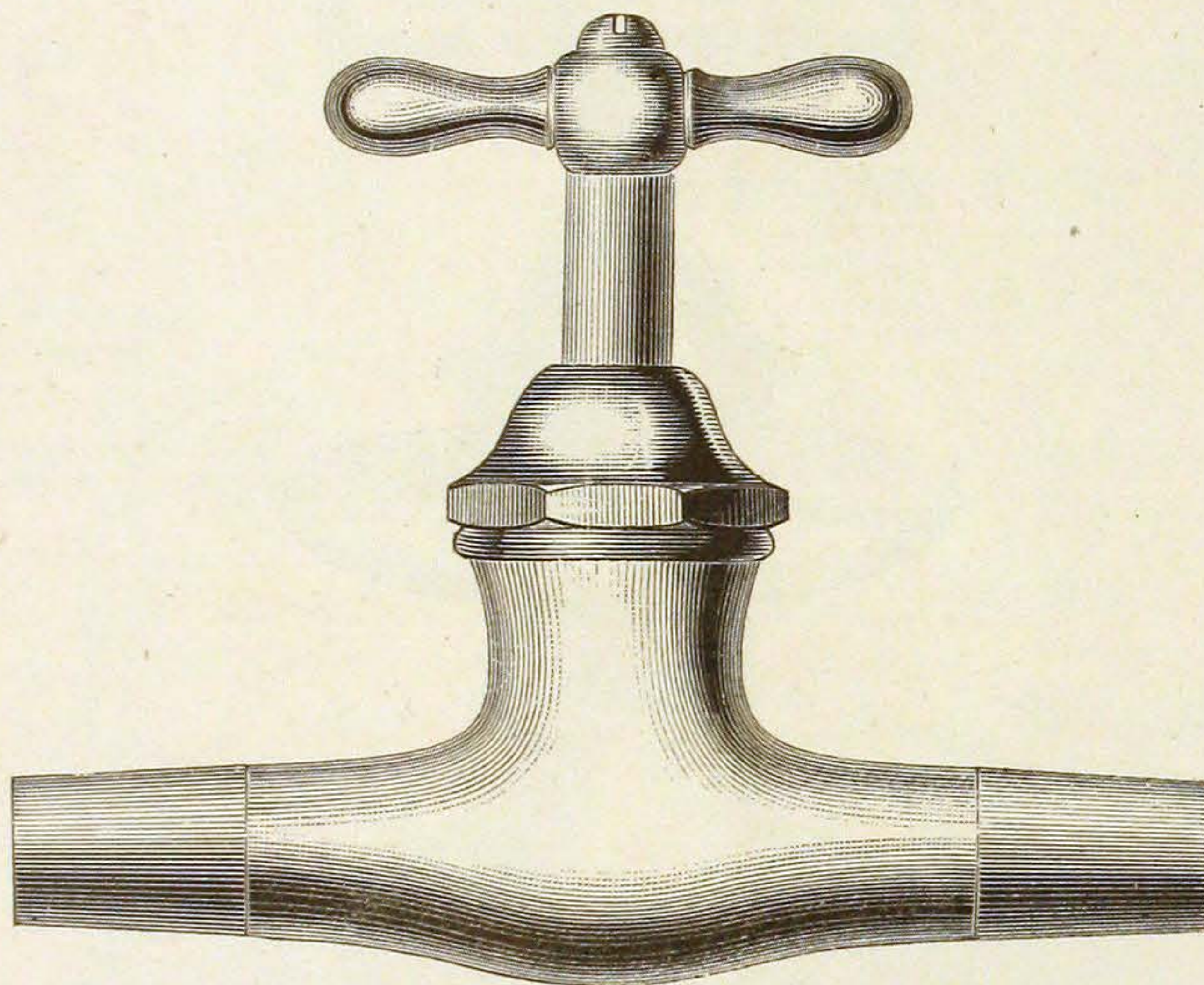


Finished and Plated.



NO. 2, COMPRESSION PLAIN STOPS.  
TO SOLDER.

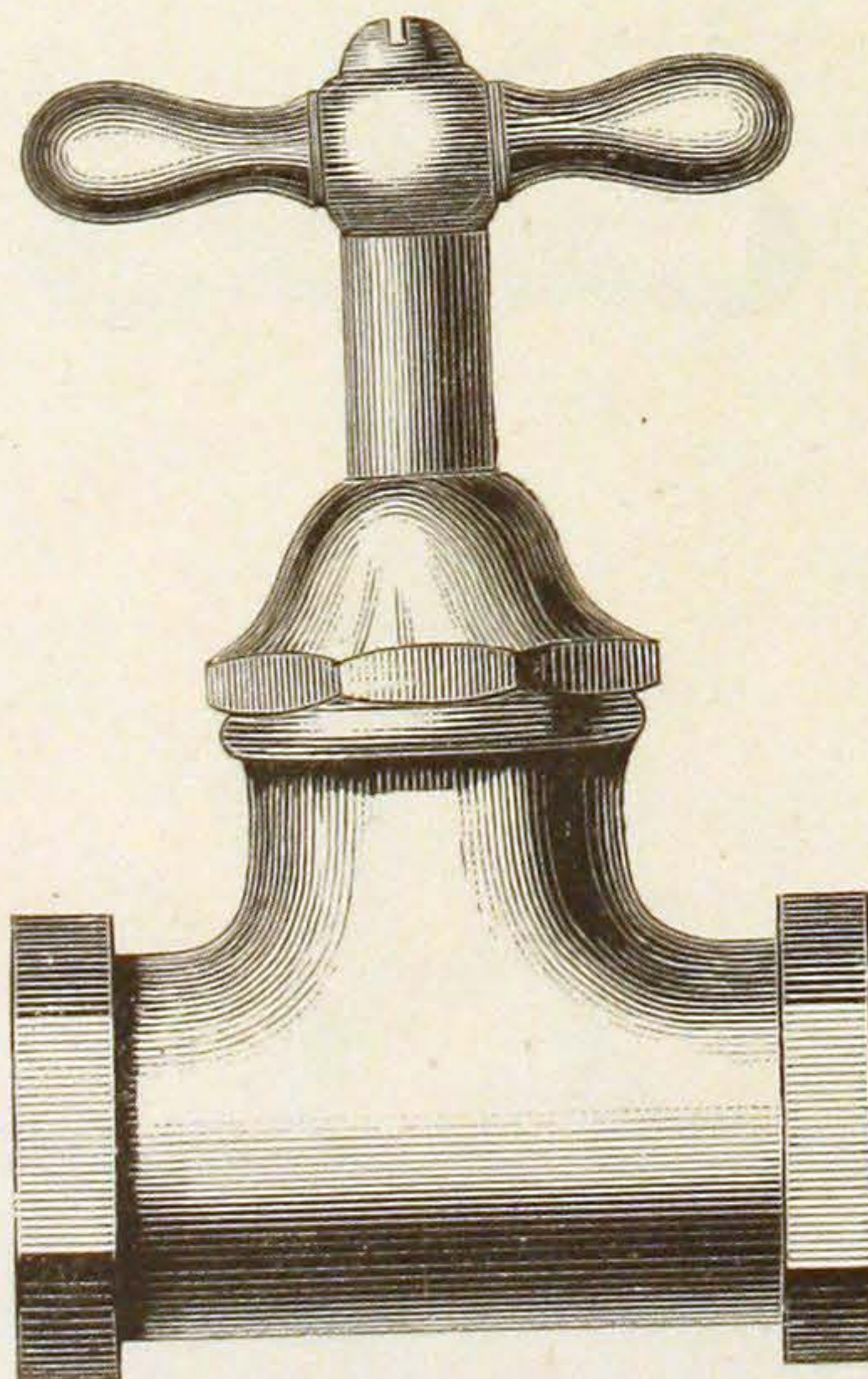
**Fig. 654.**



Rough, Finished and Plated.

SCREWED FOR IRON PIPE.

**Fig. 655.**

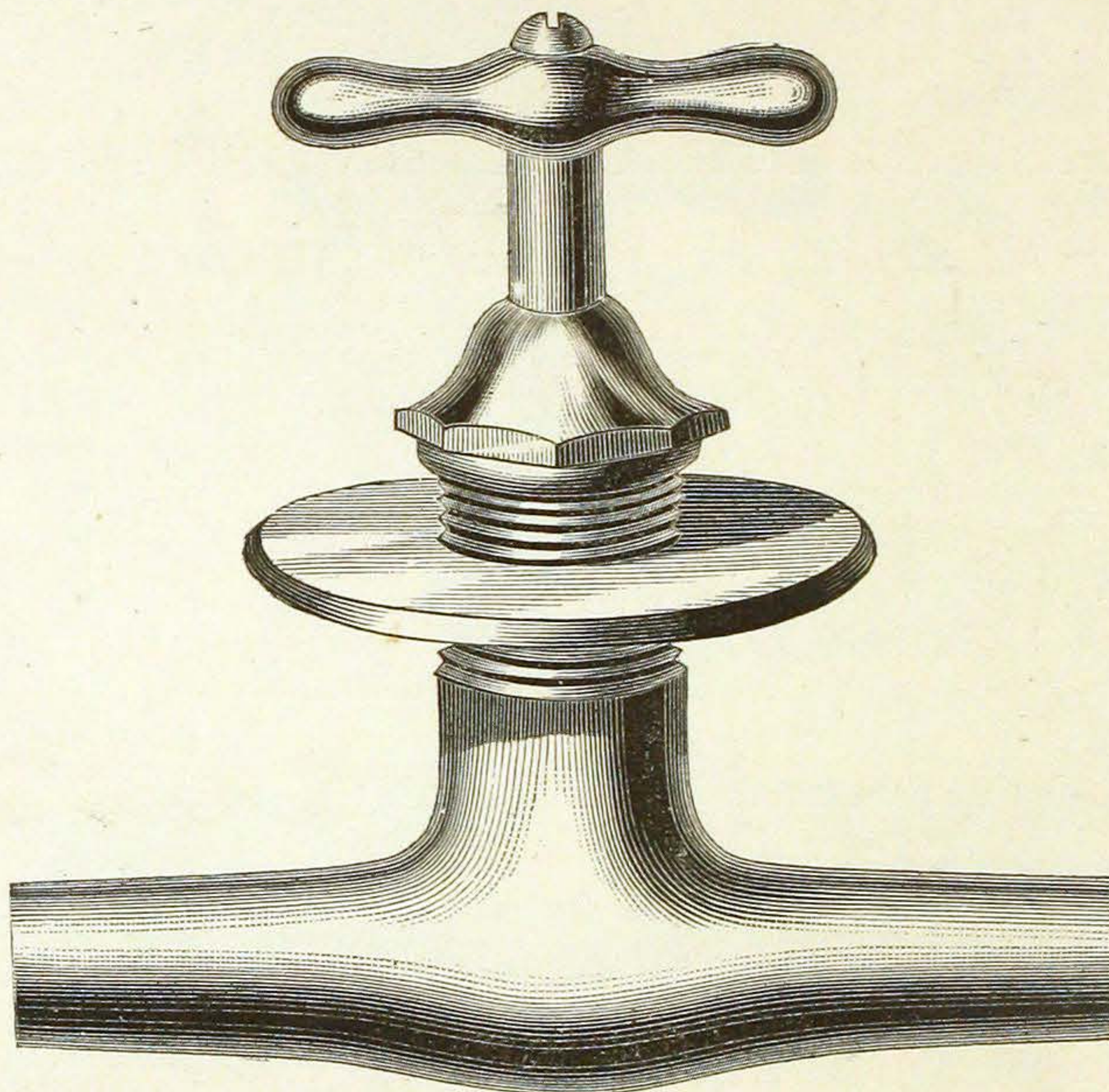


Rough, Finished and Plated.



NO. 2, COMPRESSION PLAIN STOP.  
FLANGE AND HANDLE.

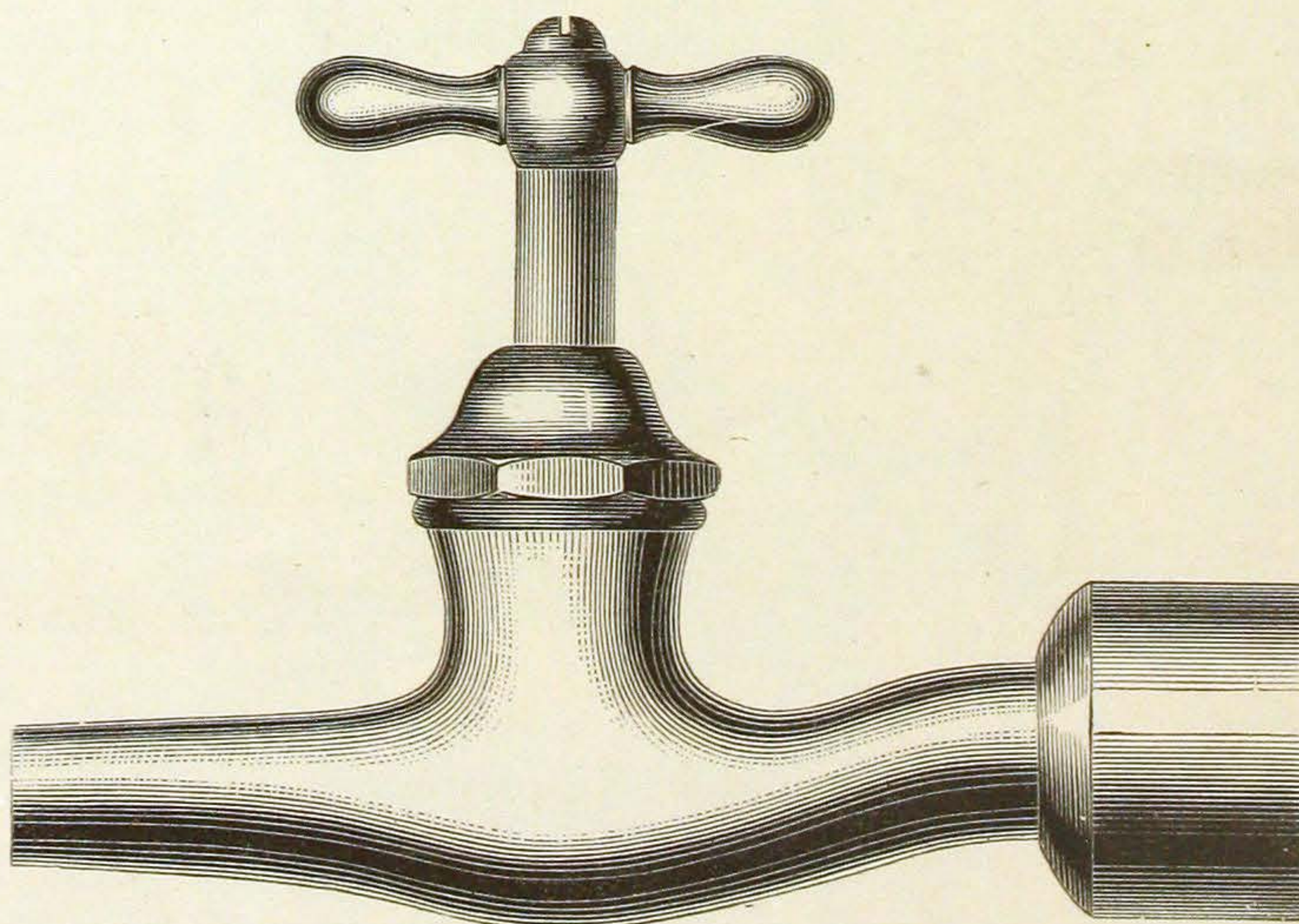
Fig. 656.



Finished and Plated.

NO. 2, COMPRESSION URINAL COCK.

Fig. 657.



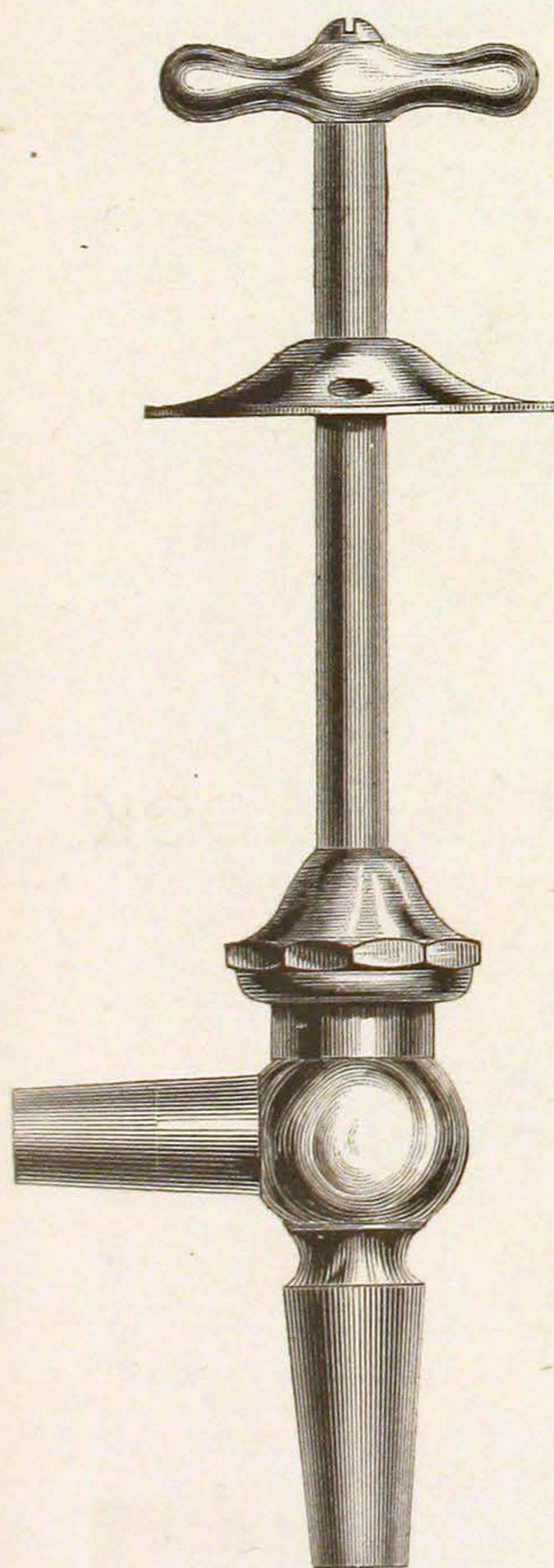
Finished and Plated.



## COMPRESSION HOPPER COCK.

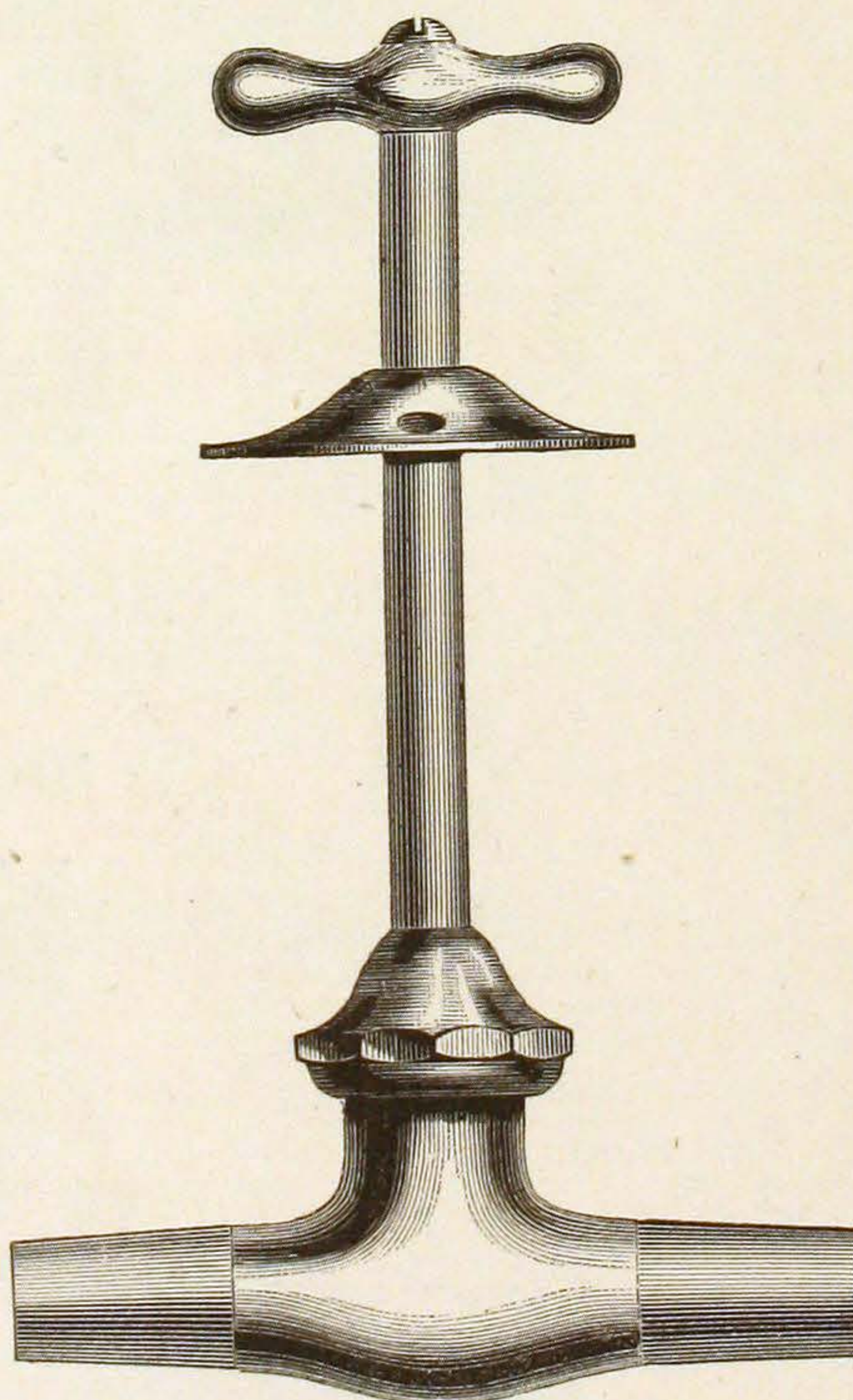
FINISHED FLANGE  
AND HANDLE.

**Fig. 658.**



STRAIGHT FINISHED  
FLANGE AND HANDLE.

**Fig. 659.**



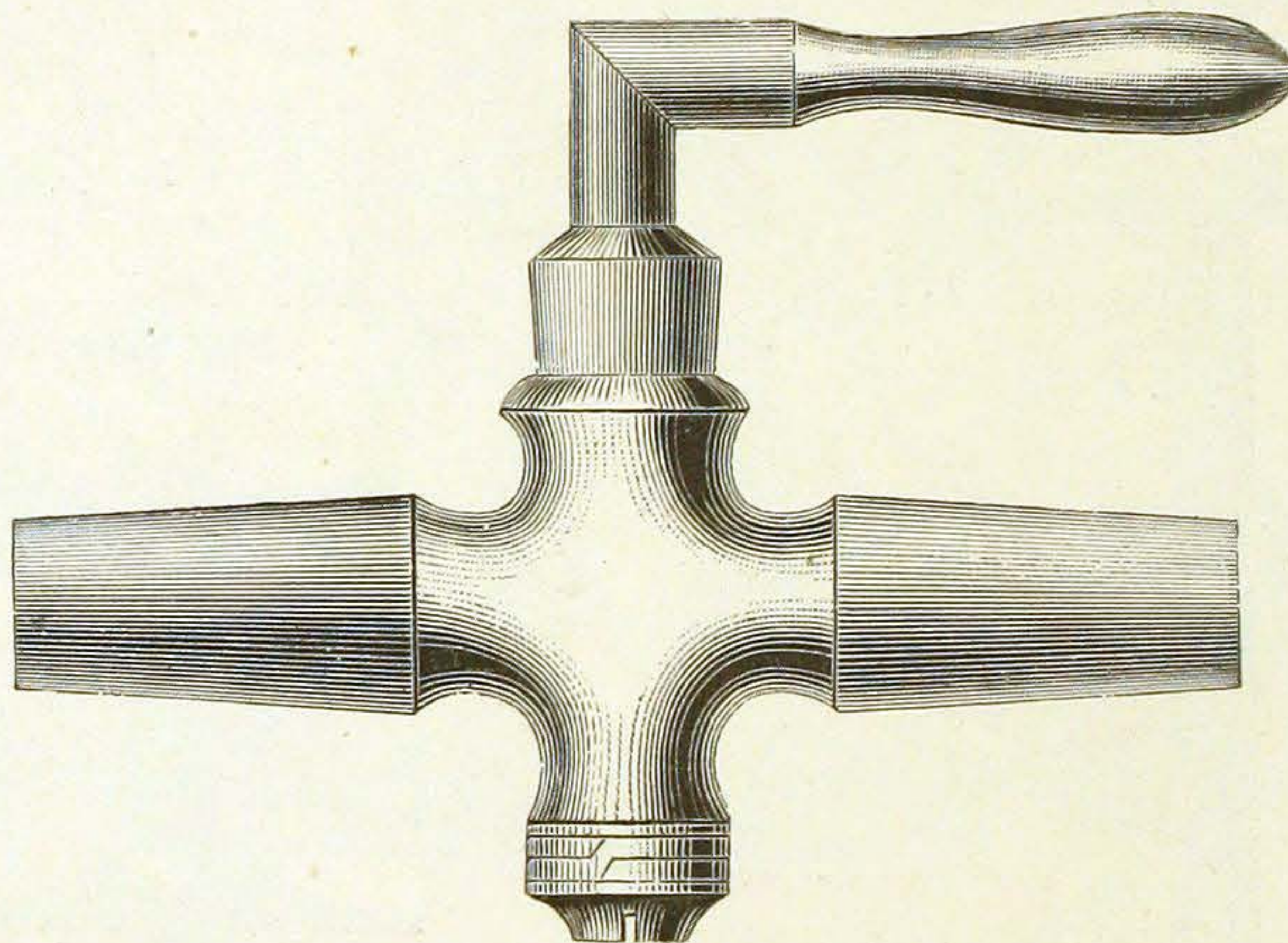
Finished and Plated.



ROUGH LEVER HANDLE STOPS.  
TO SOLDER.

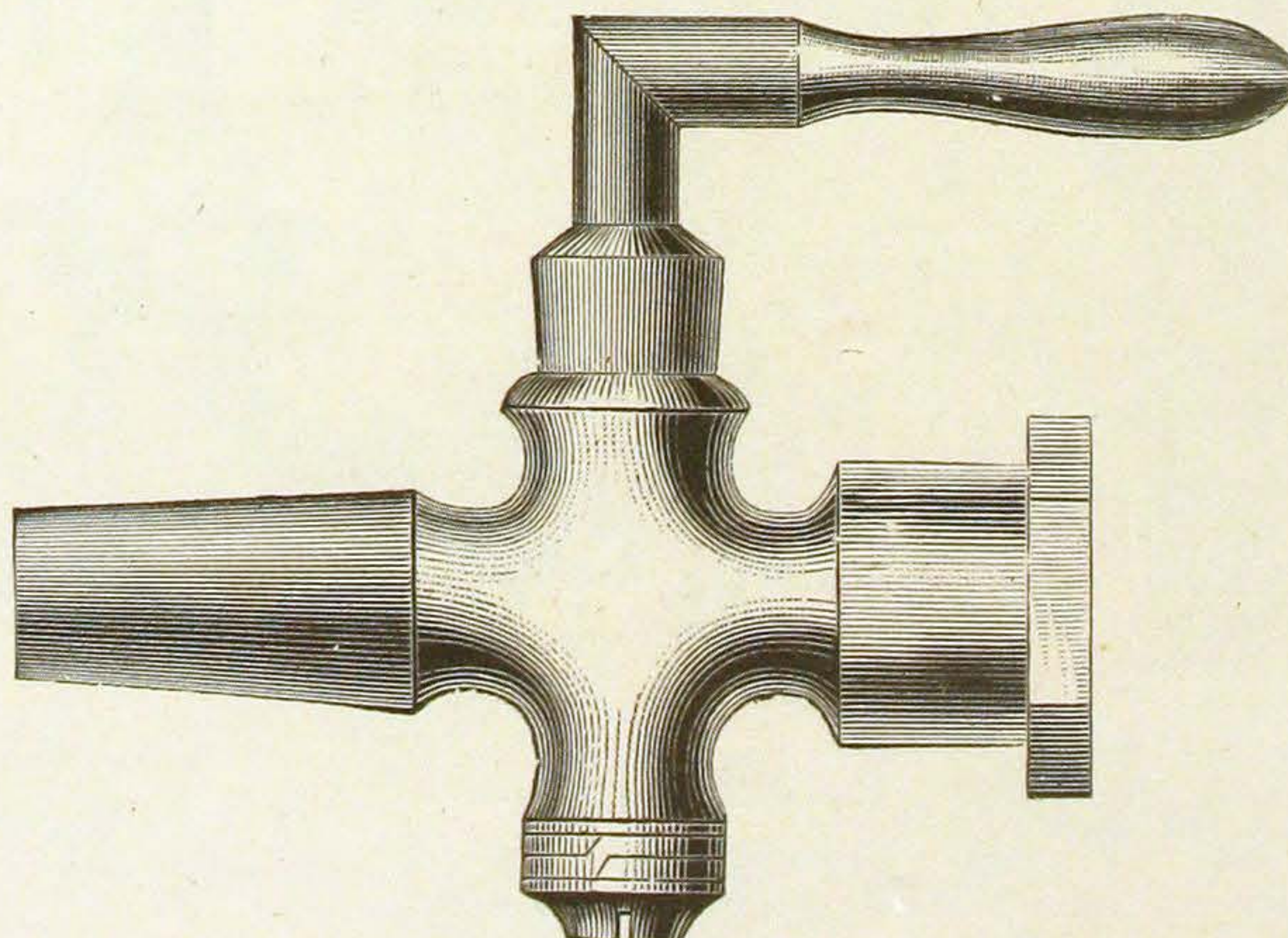
NUT AND WASHER BOTTOM.

**Fig. 660.**



One end for Lead Pipe, the other for Iron Pipe.

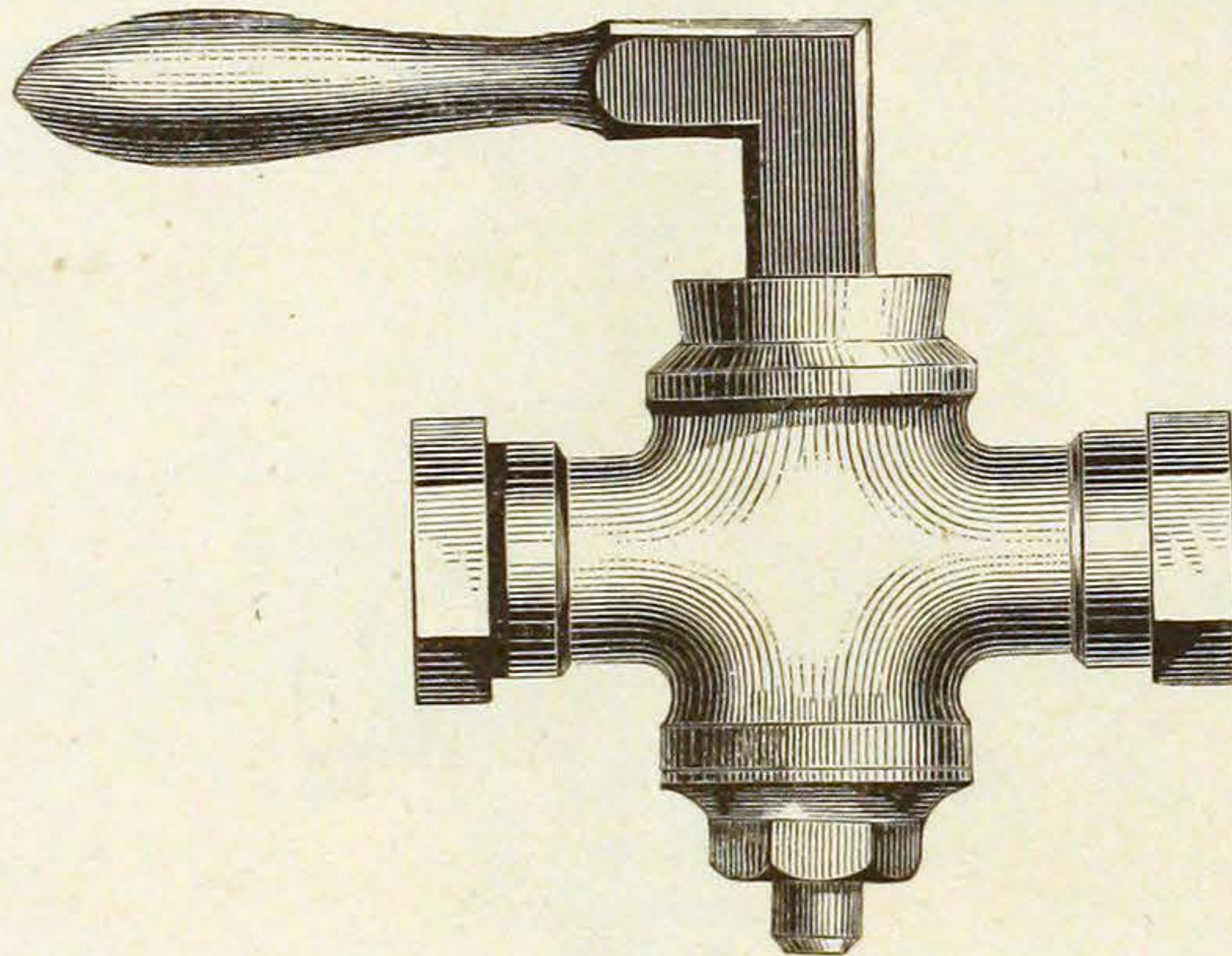
**Fig. 661.**





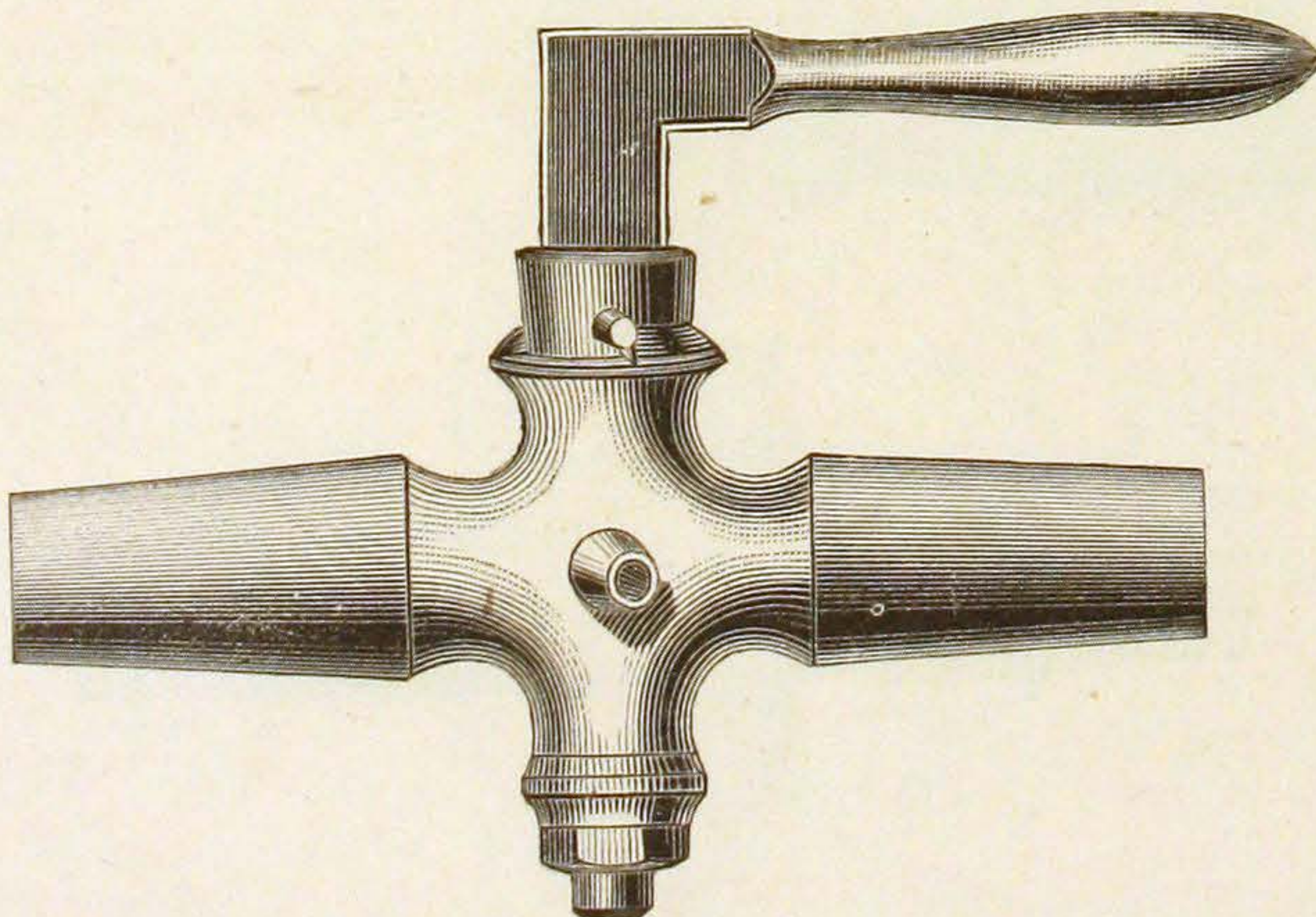
ROUGH LEVER HANDLE STOP.  
SCREWED FOR IRON PIPE.

**Fig. 662.**



ROUGH LEVER HANDLE STOP AND WASTE.  
TO SOLDER.

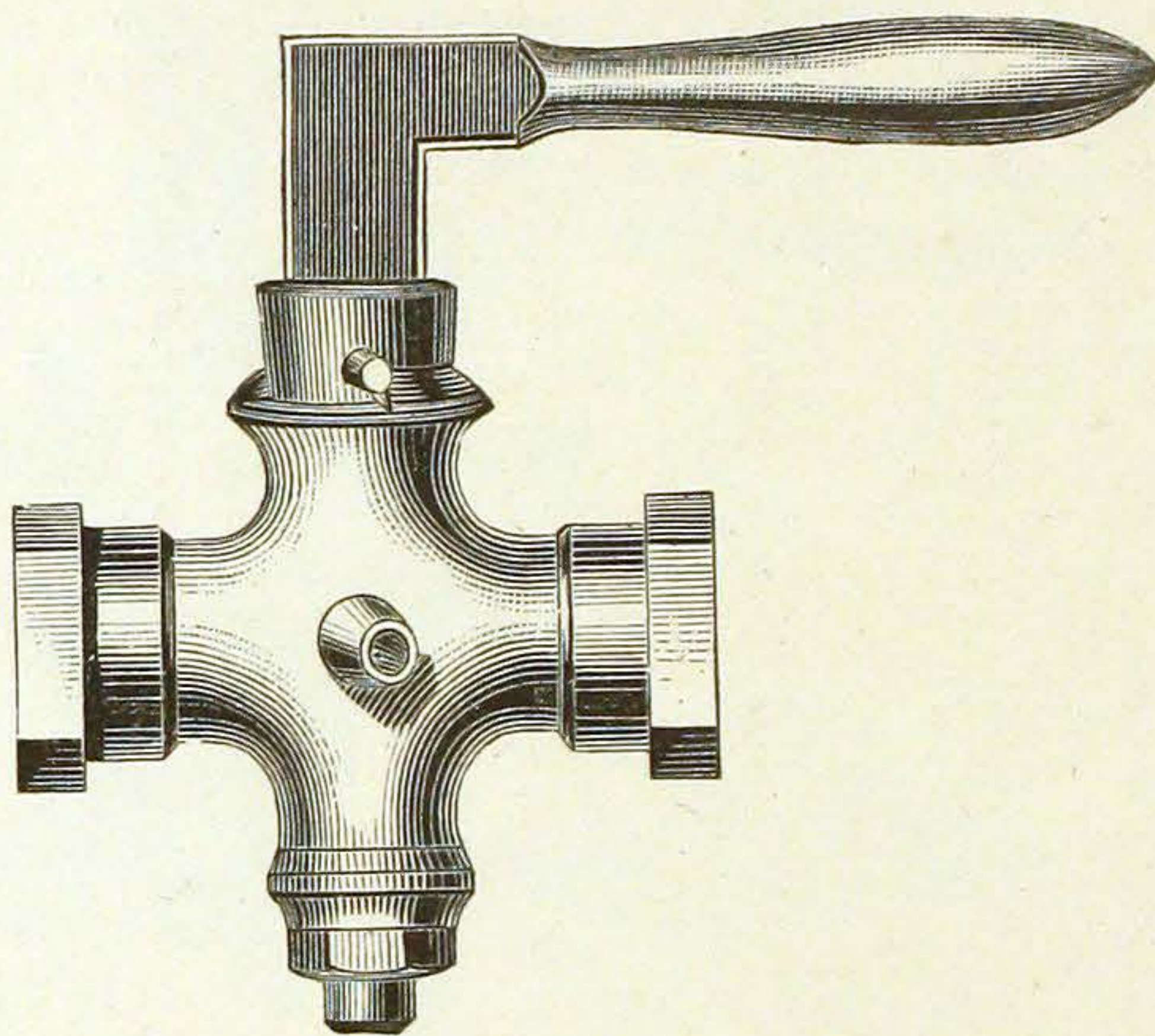
**Fig. 663.**





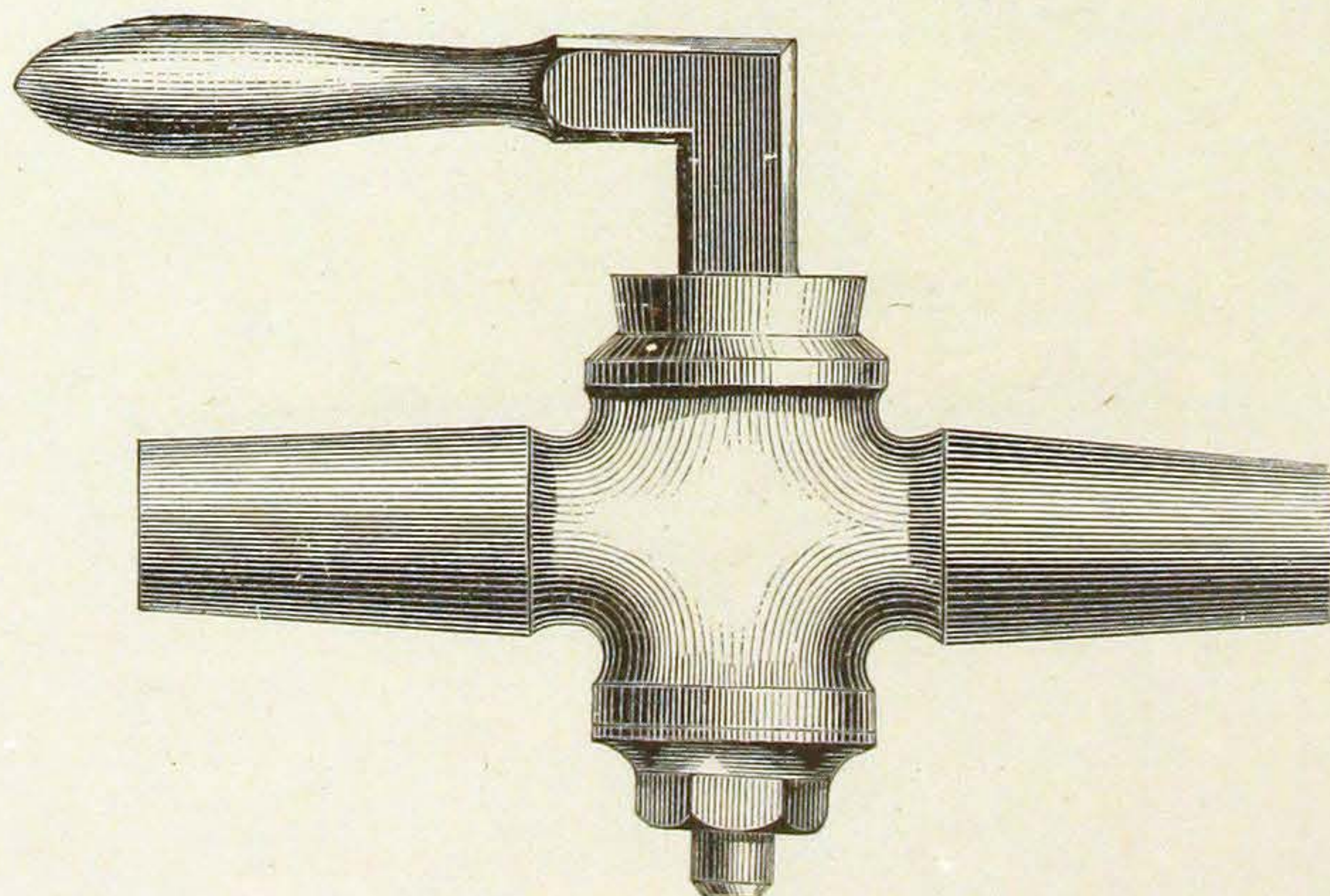
ROUGH LEVER HANDLE STOP AND WASTE.  
SCREWED FOR IRON PIPE.

**Fig. 664.**



ROUGH LEVER HANDLE STOP.  
ROUND WAY, TO SOLDER.

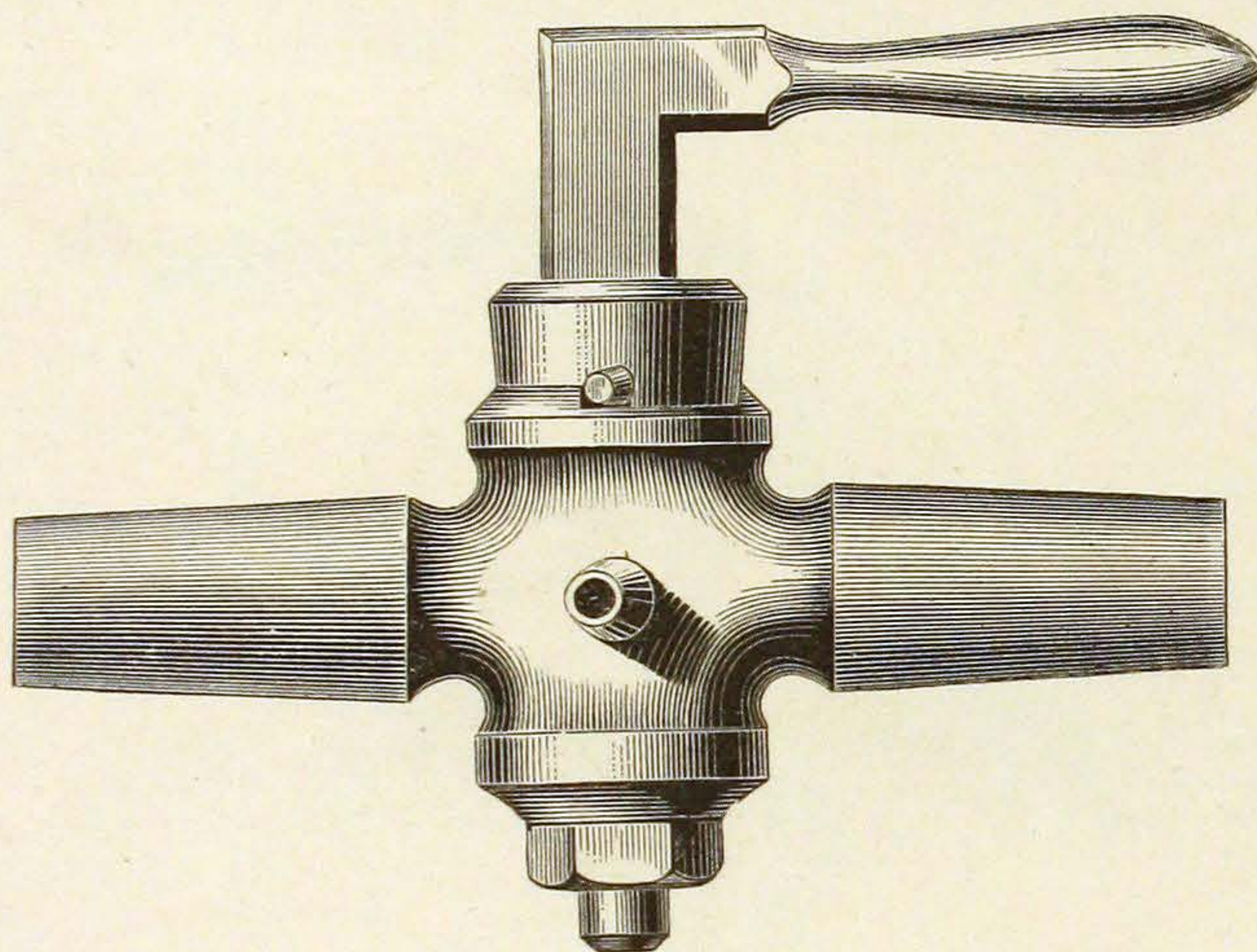
**Fig. 665.**





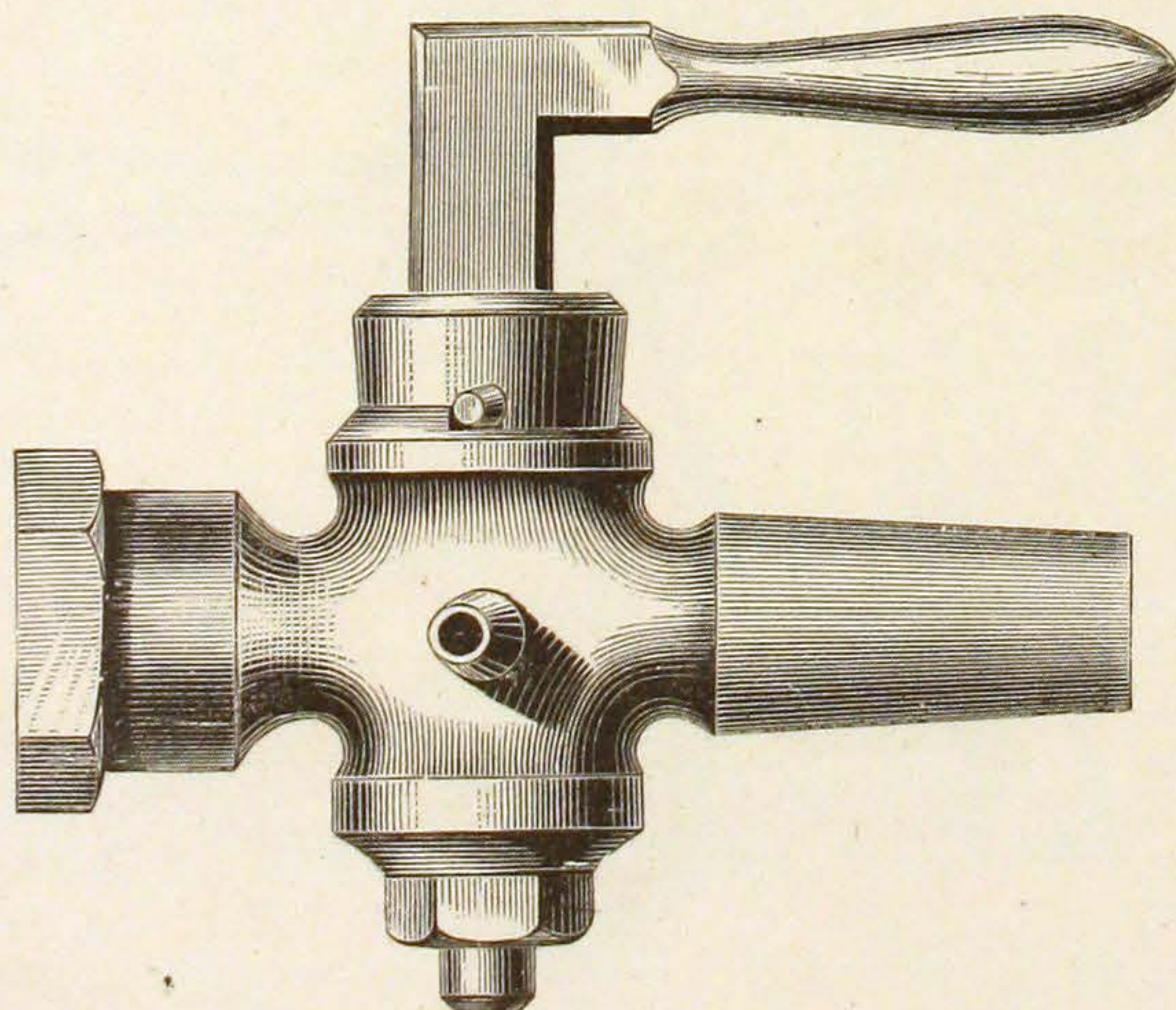
ROUGH LEVER HANDLE STOP AND WASTE.  
ROUND WAY, TO SOLDER.

**Fig. 666.**



ROUGH LEVER HANDLE STOP AND WASTE.  
ROUND WAY, ONE END FOR IRON PIPE.

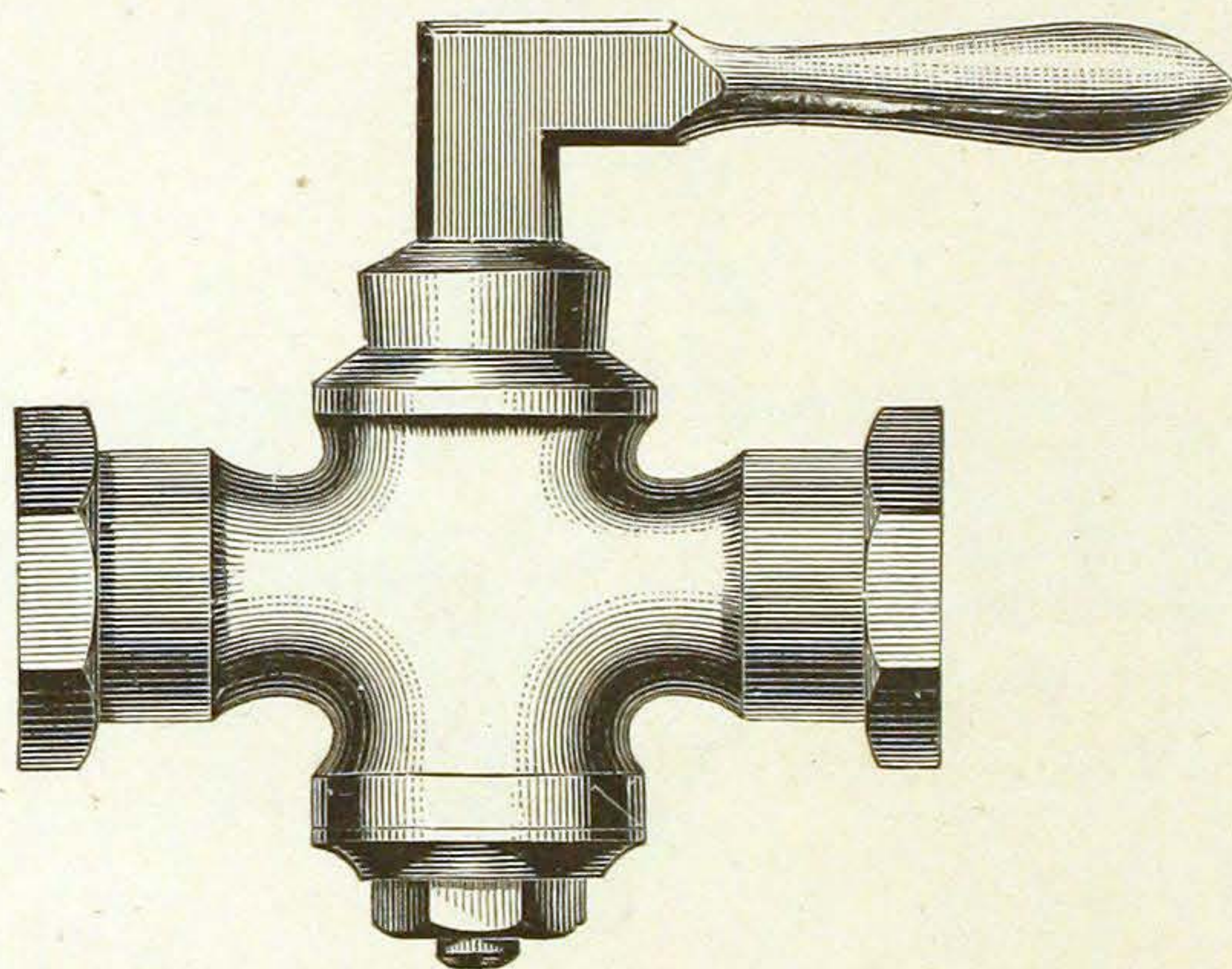
**Fig. 667.**





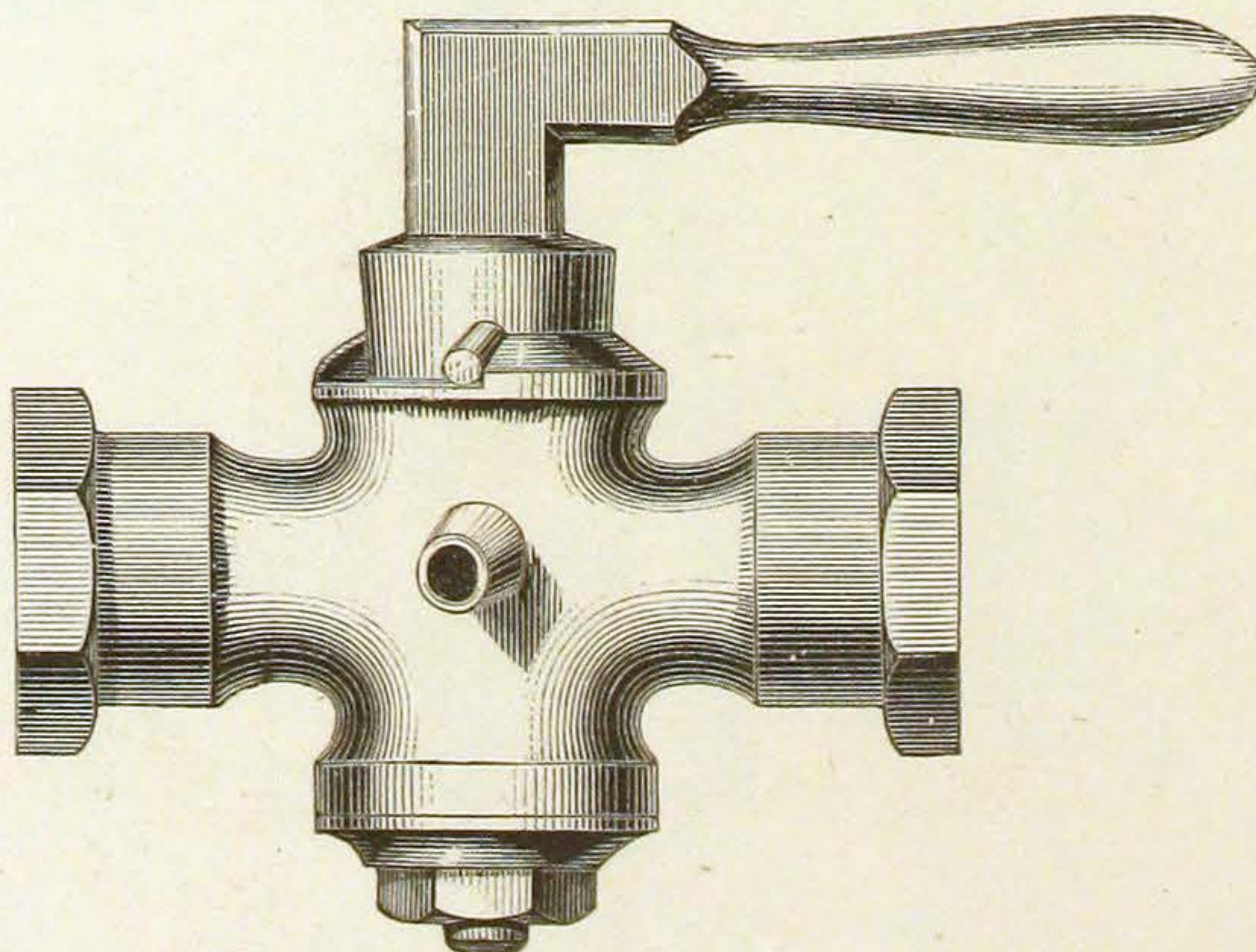
ROUGH LEVER HANDLE STOP.  
ROUND WAY. SCREWED FOR IRON PIPE.

**Fig. 668.**



ROUGH LEVER HANDLE STOP AND WASTE.  
ROUND WAY. SCREWED FOR IRON PIPE.

**Fig. 669.**



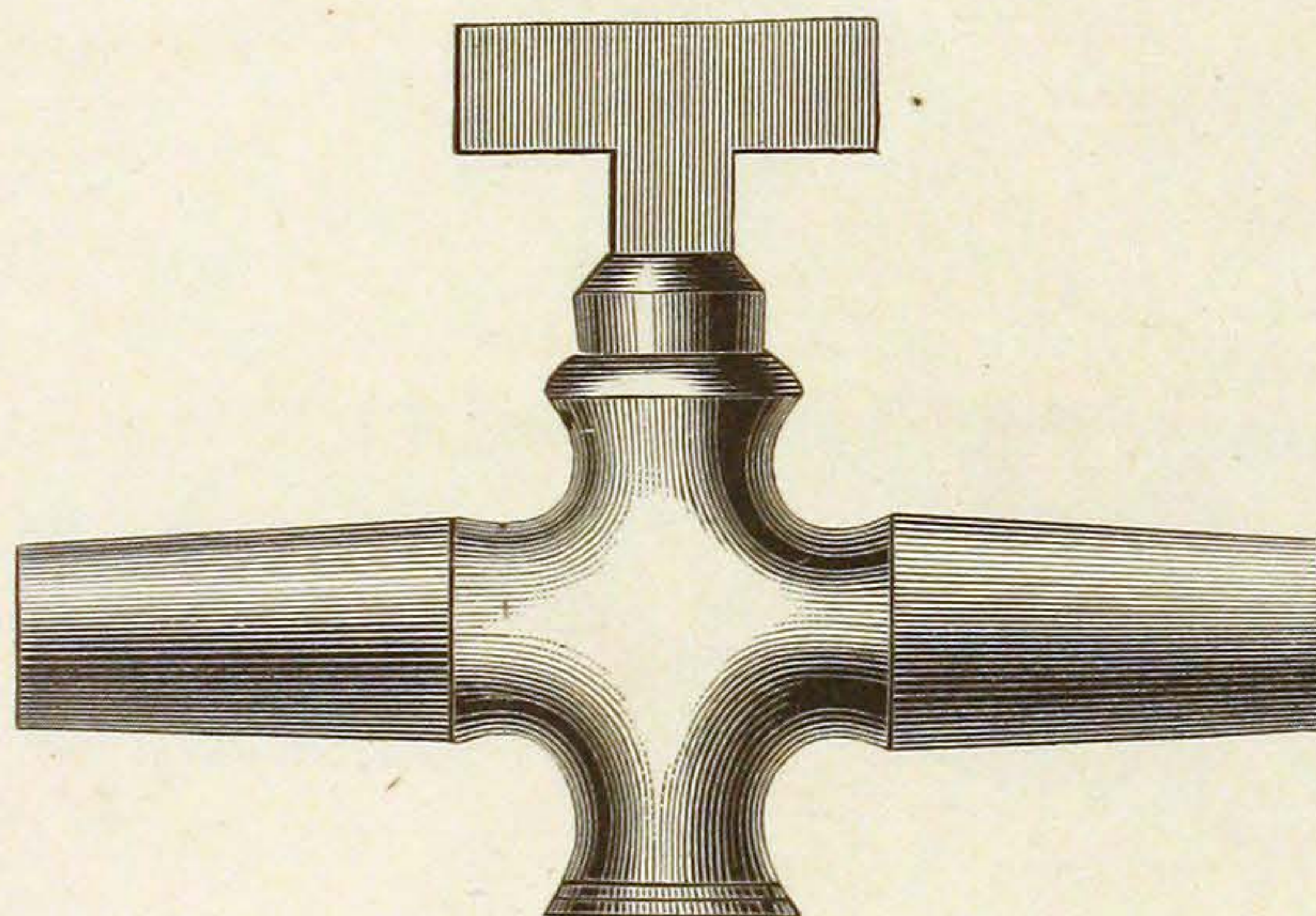


ROUGH T HANDLE STOP.

TO SOLDER.

RIVET BOTTOM.

**Fig. 670.**

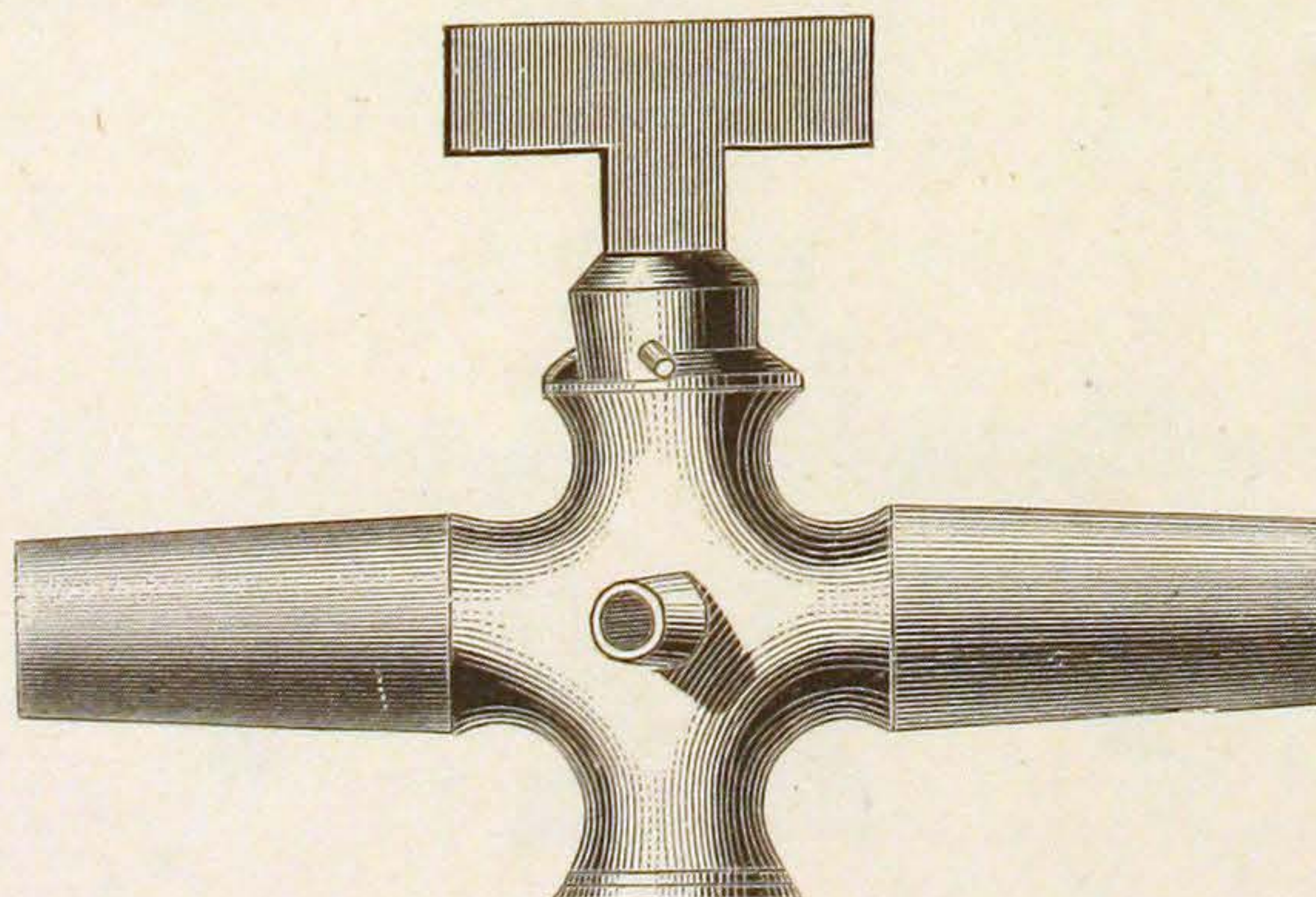


ROUGH T HANDLE STOP AND WASTE.

TO SOLDER.

RIVET BOTTOM.

**Fig. 671.**

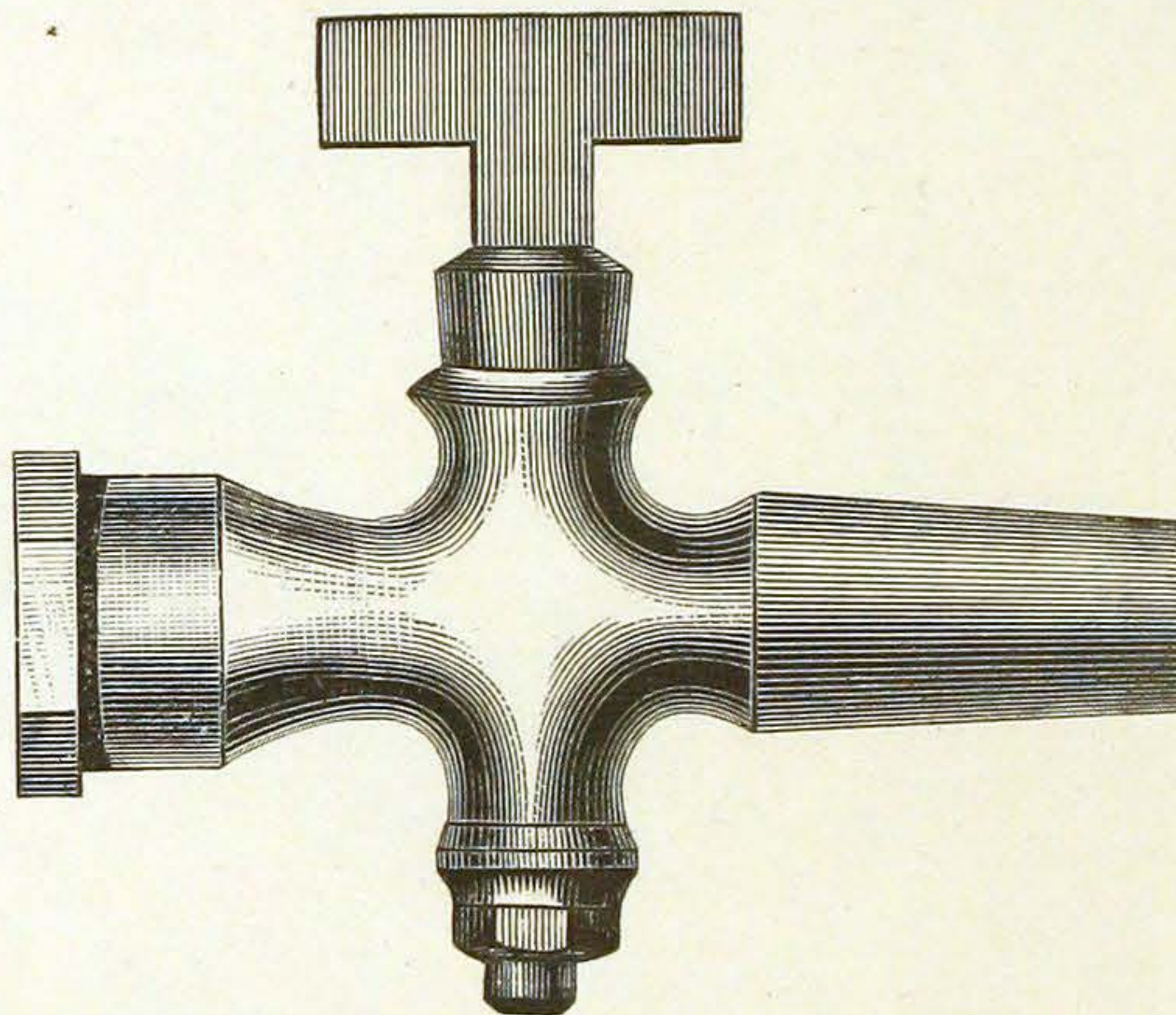




## ROUGH T HANDLE STOPS.

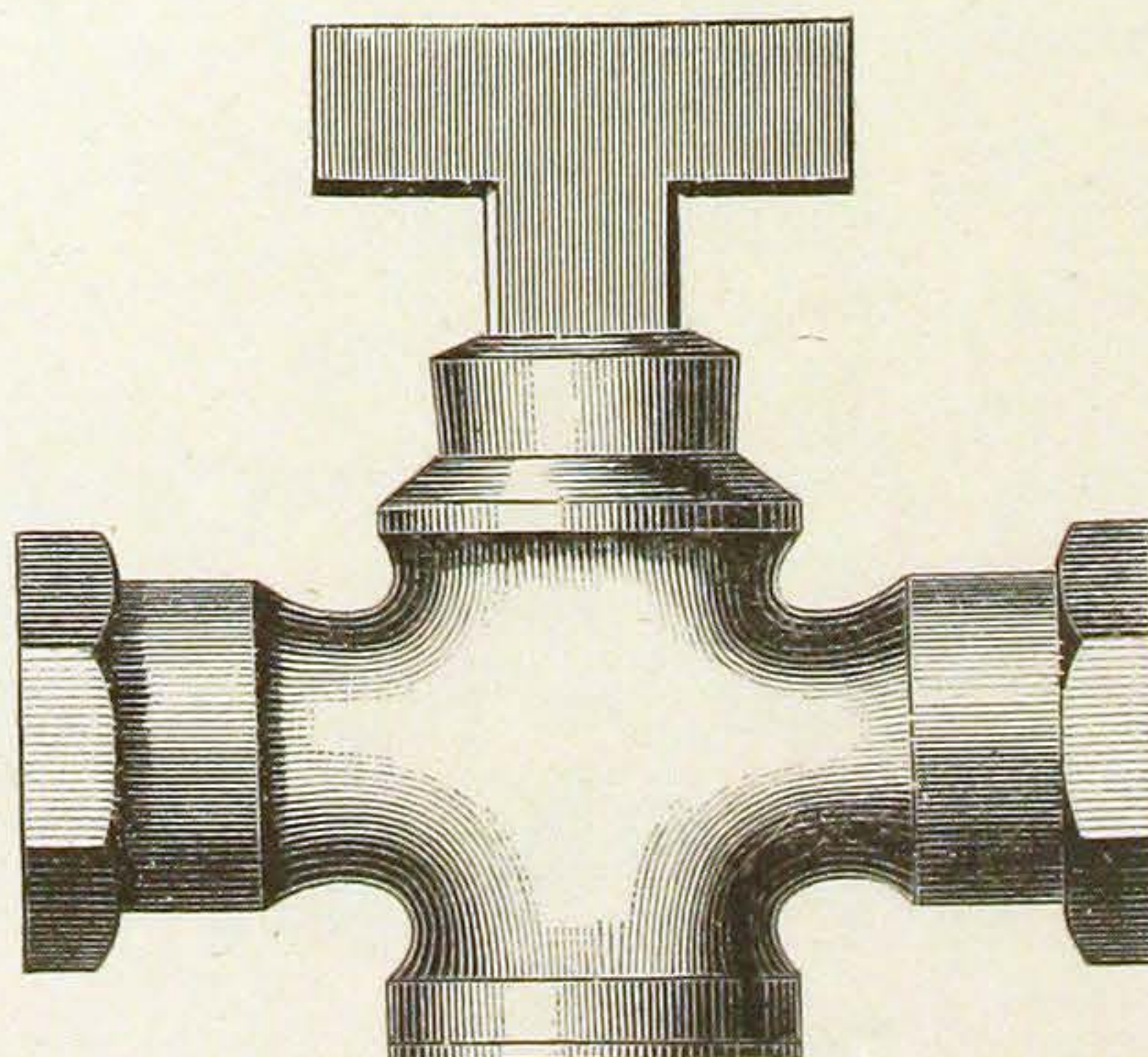
ONE END SCREWED FOR IRON PIPE.

Fig. 672.



SCREWED FOR IRON PIPE.

Fig. 673.

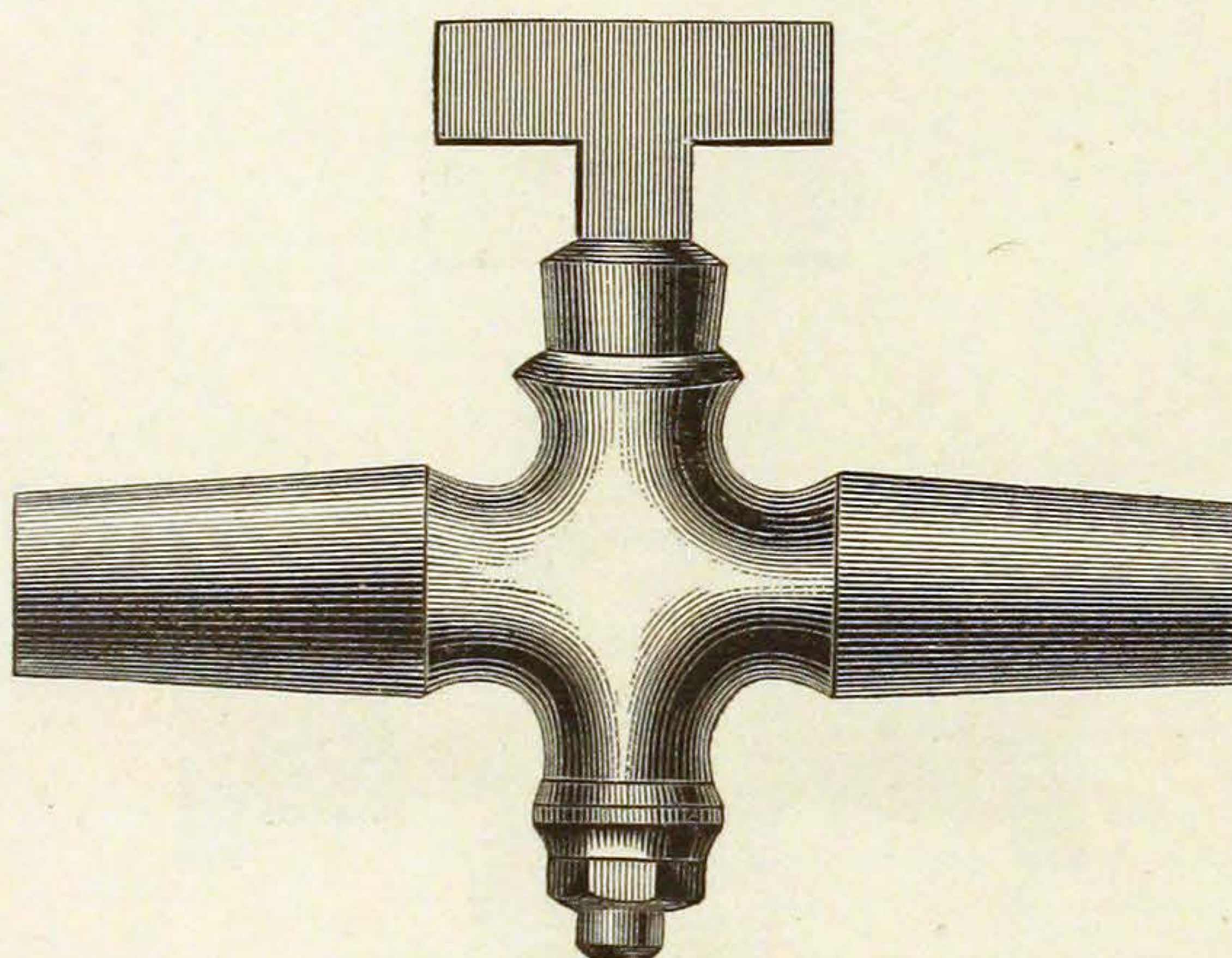




ROUGH T HANDLE STOP.  
TO SOLDER.

NUT AND WASHER BOTTOM.

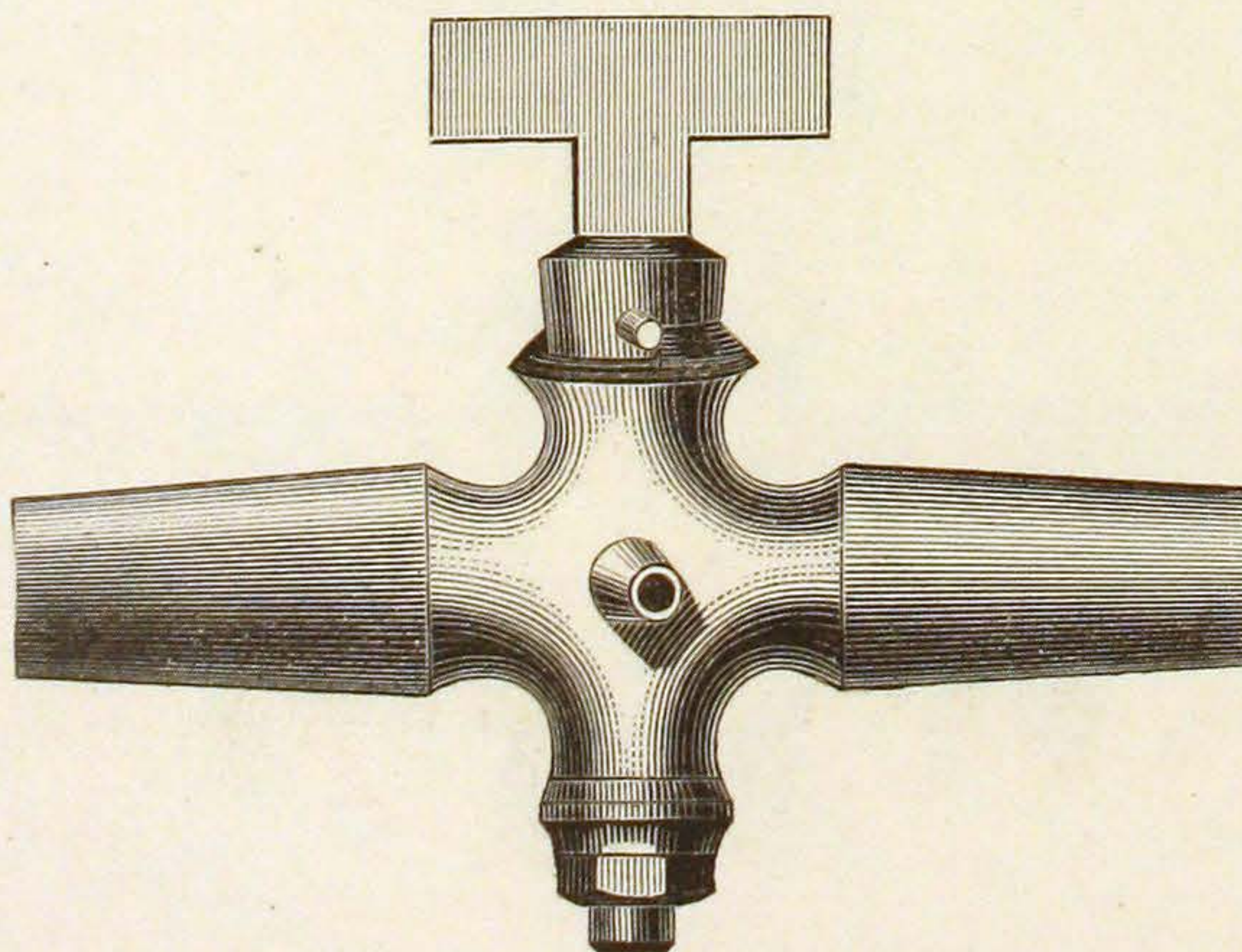
**Fig. 674.**



ROUGH T HANDLE STOP AND WASTE.  
TO SOLDER.

NUT AND WASHER BOTTOM.

**Fig. 675.**

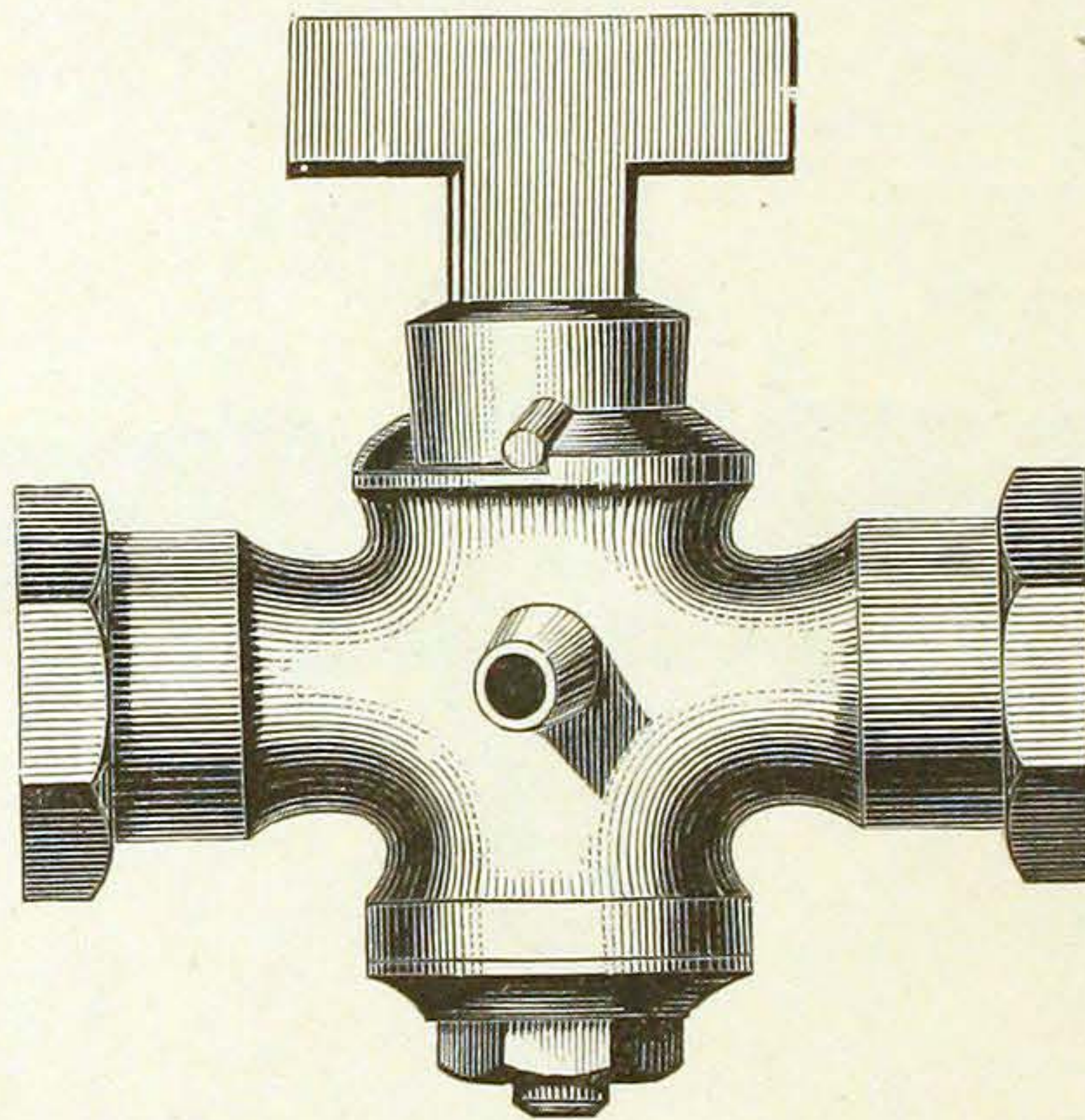




## ROUGH T HANDLE STOPS.

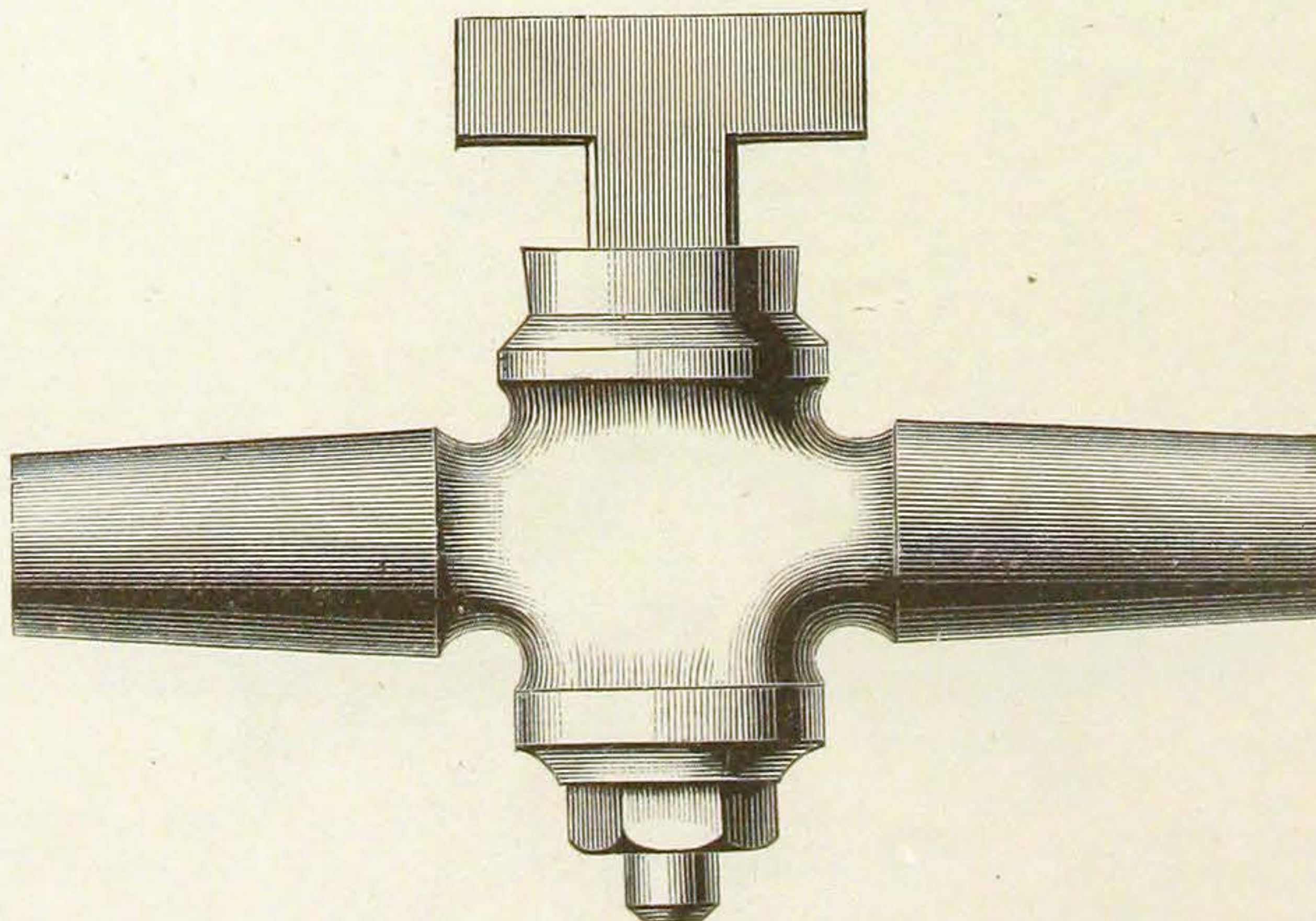
WASTE, SCREWED FOR IRON PIPE.

Fig. 676.



ROUND WAY. TO SOLDER.

Fig. 677.

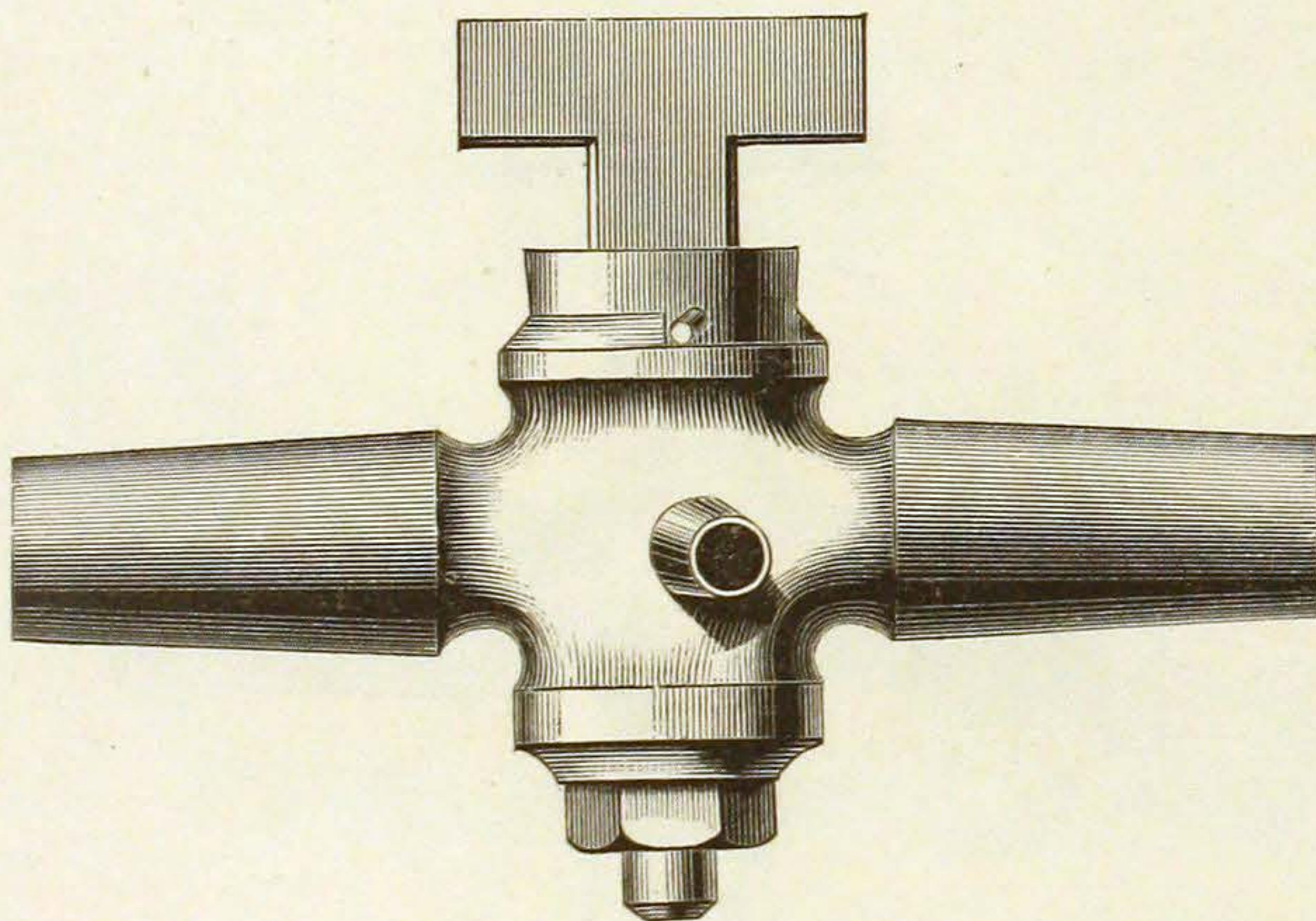




ROUGH T HANDLE STOP AND WASTE.

ROUND WAY. TO SOLDER.

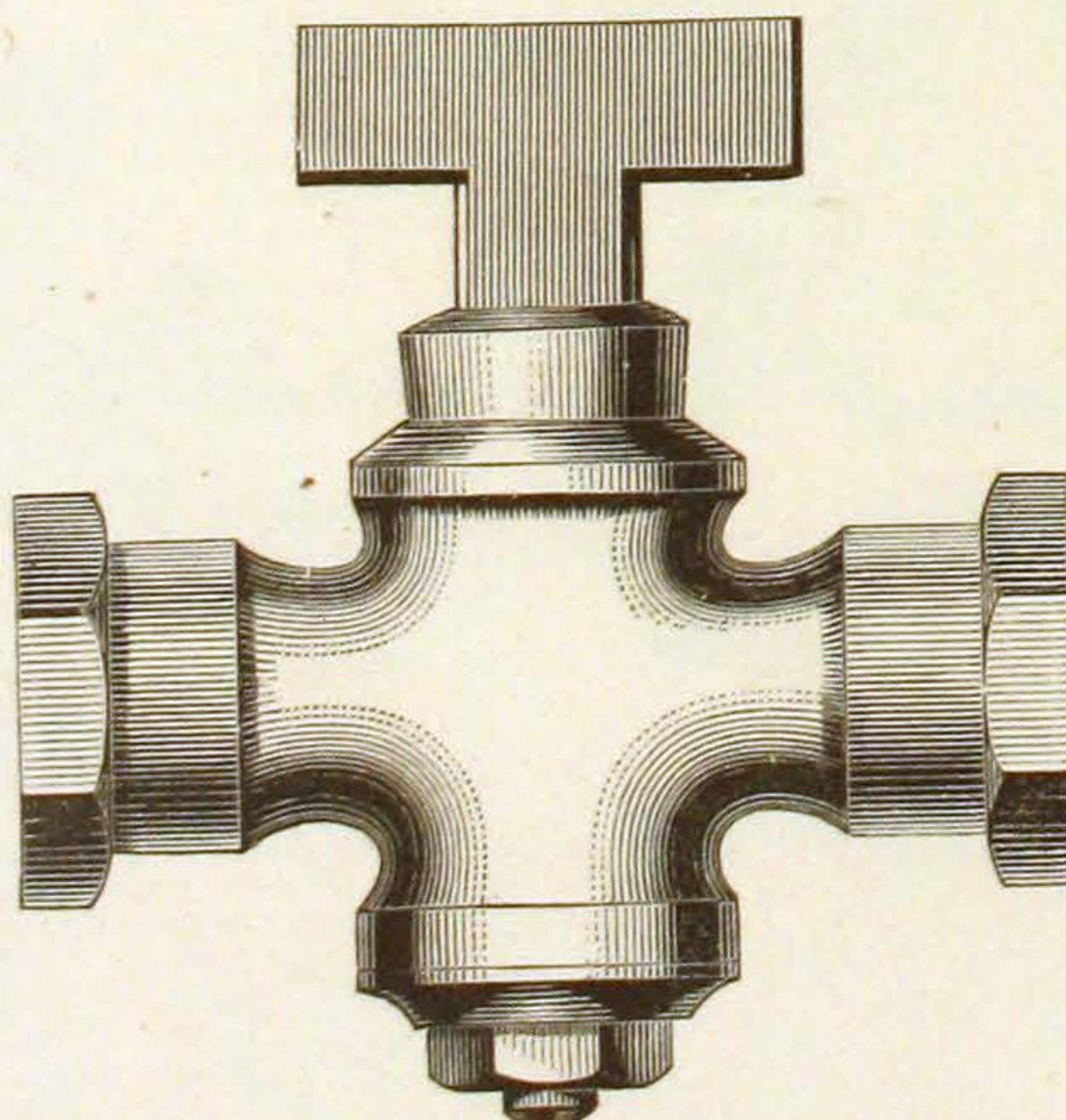
**Fig. 678.**



ROUGH T HANDLE STOP.

ROUND WAY. SCREWED FOR IRON PIPE.

**Fig. 679.**

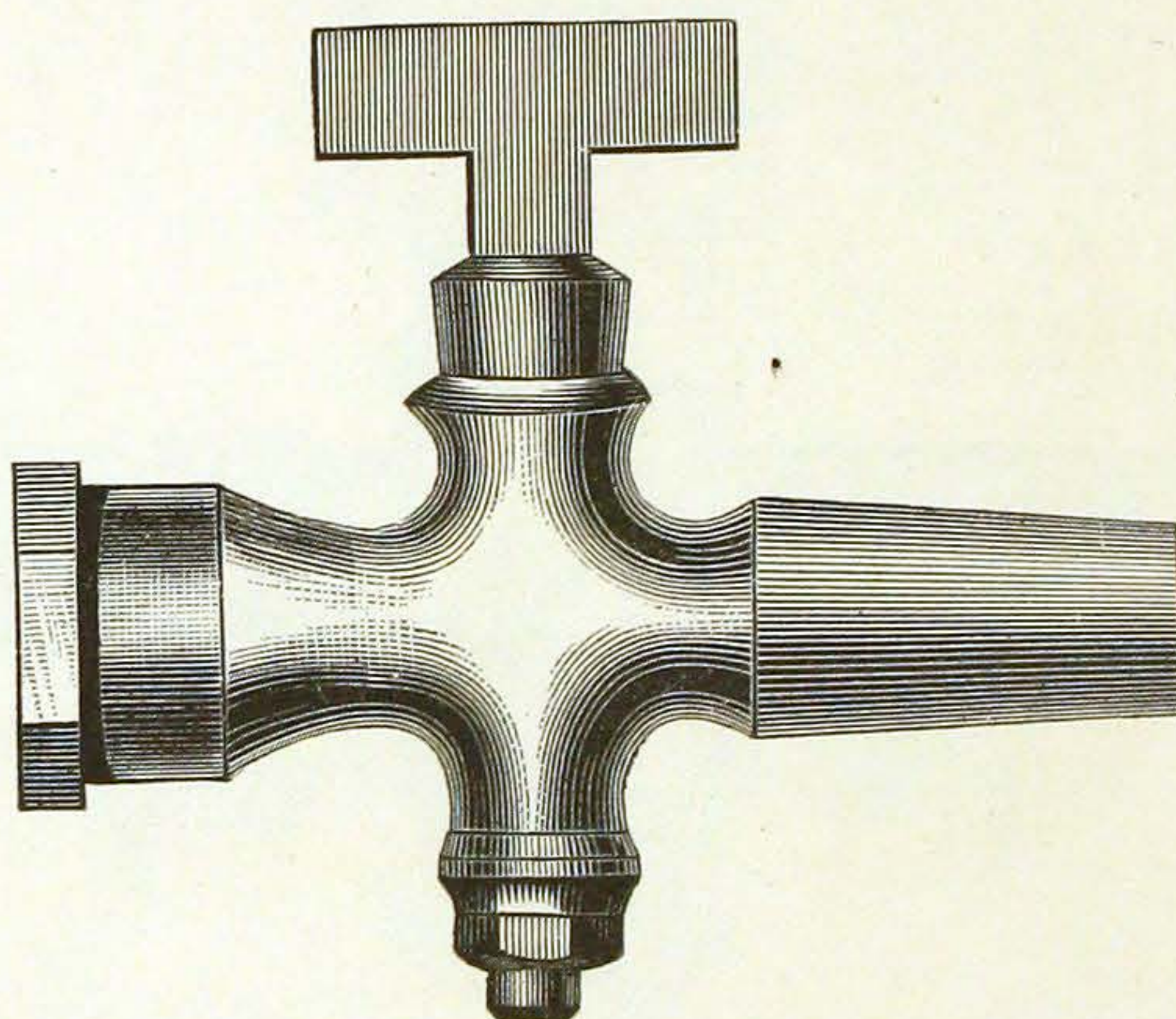




ROUGH T HANDLE STOP.  
ROUND WAY.

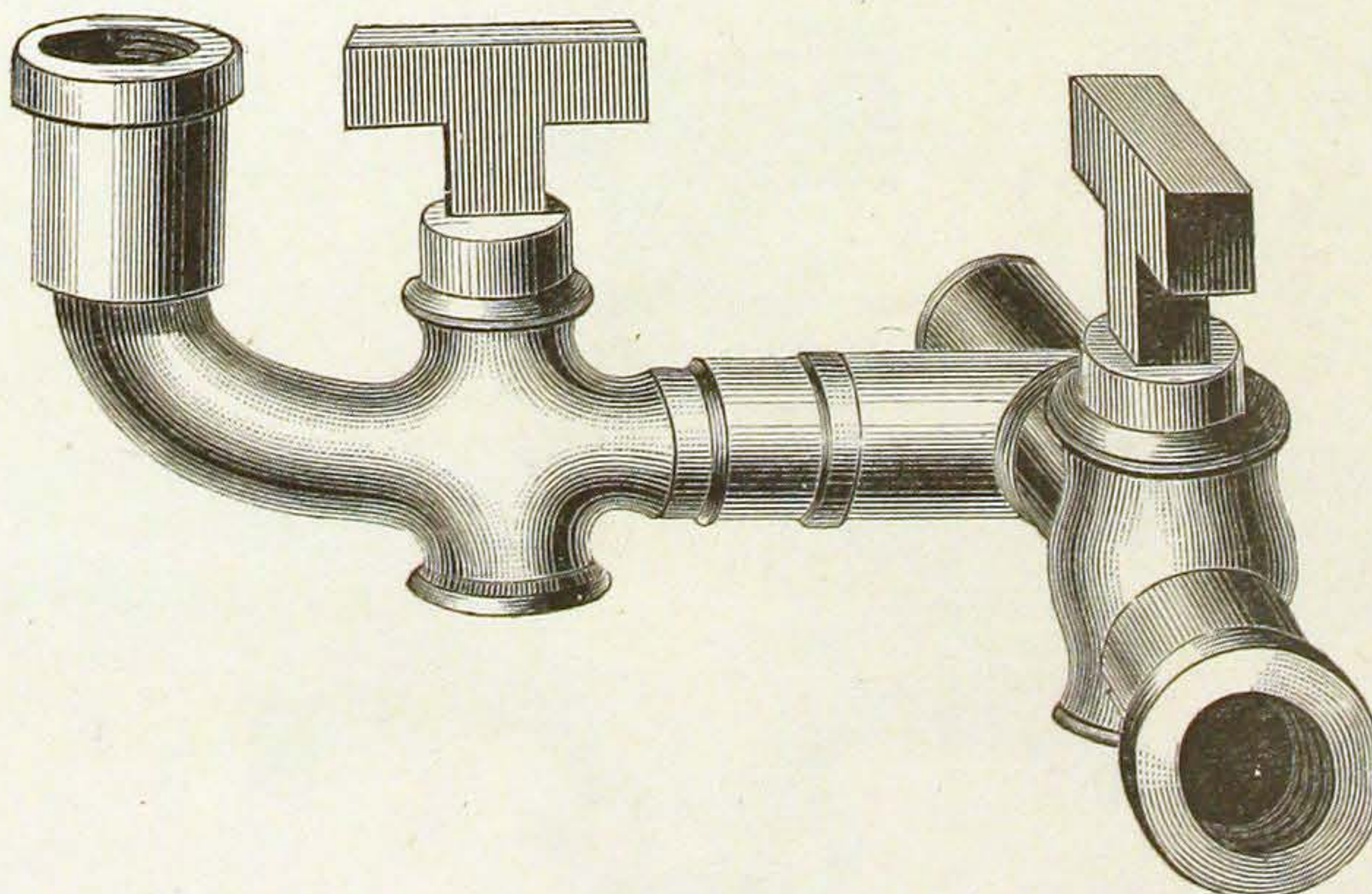
One End Screwed for Iron Pipe.

Fig. 680.



DOUBLE STREET WASHER COCK.  
SCREWED FOR IRON PIPE.

Fig. 681.



Rough.

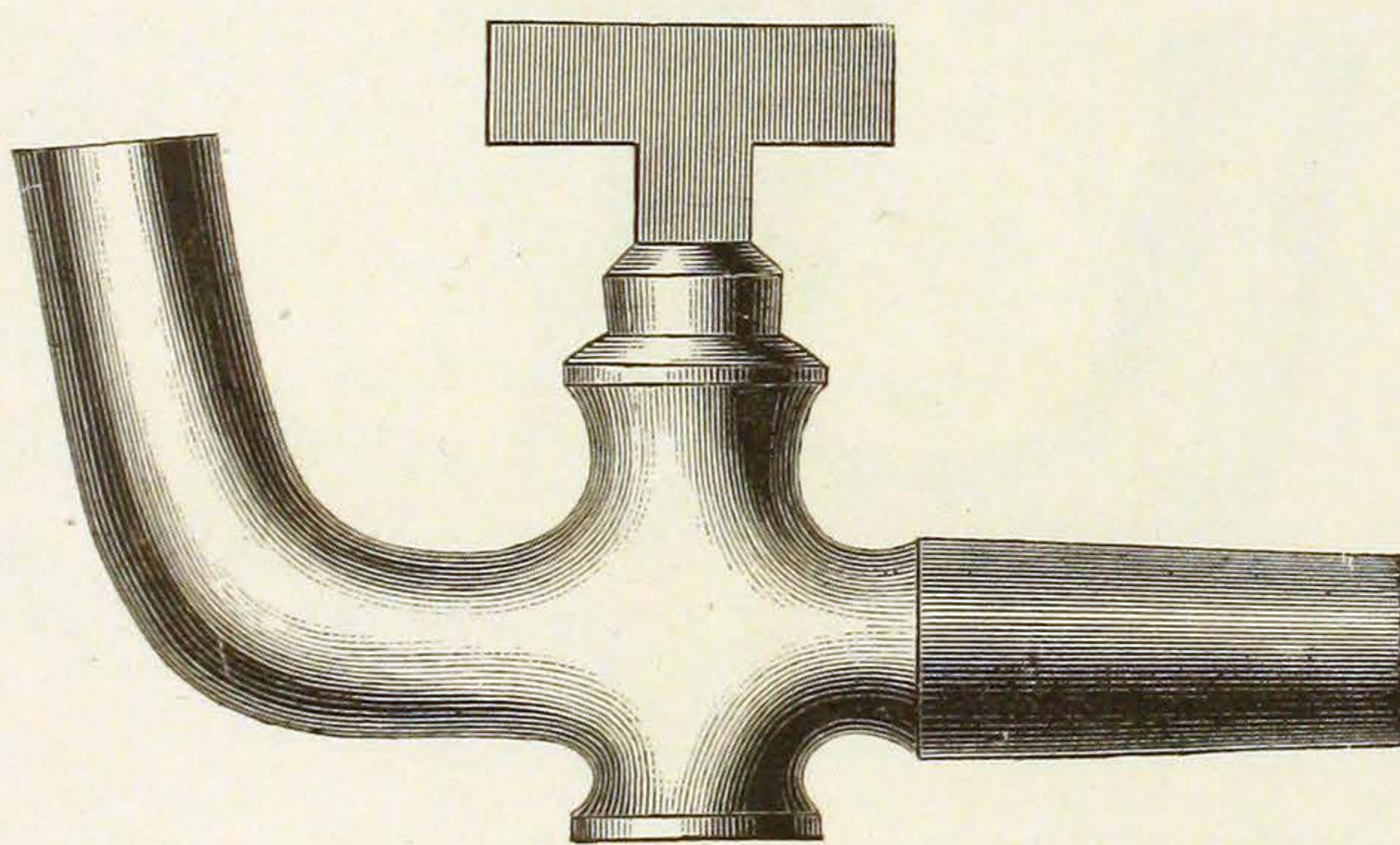


ROUGH HYDRANT COCKS.

TO SOLDER.

RIVET BOTTOM.

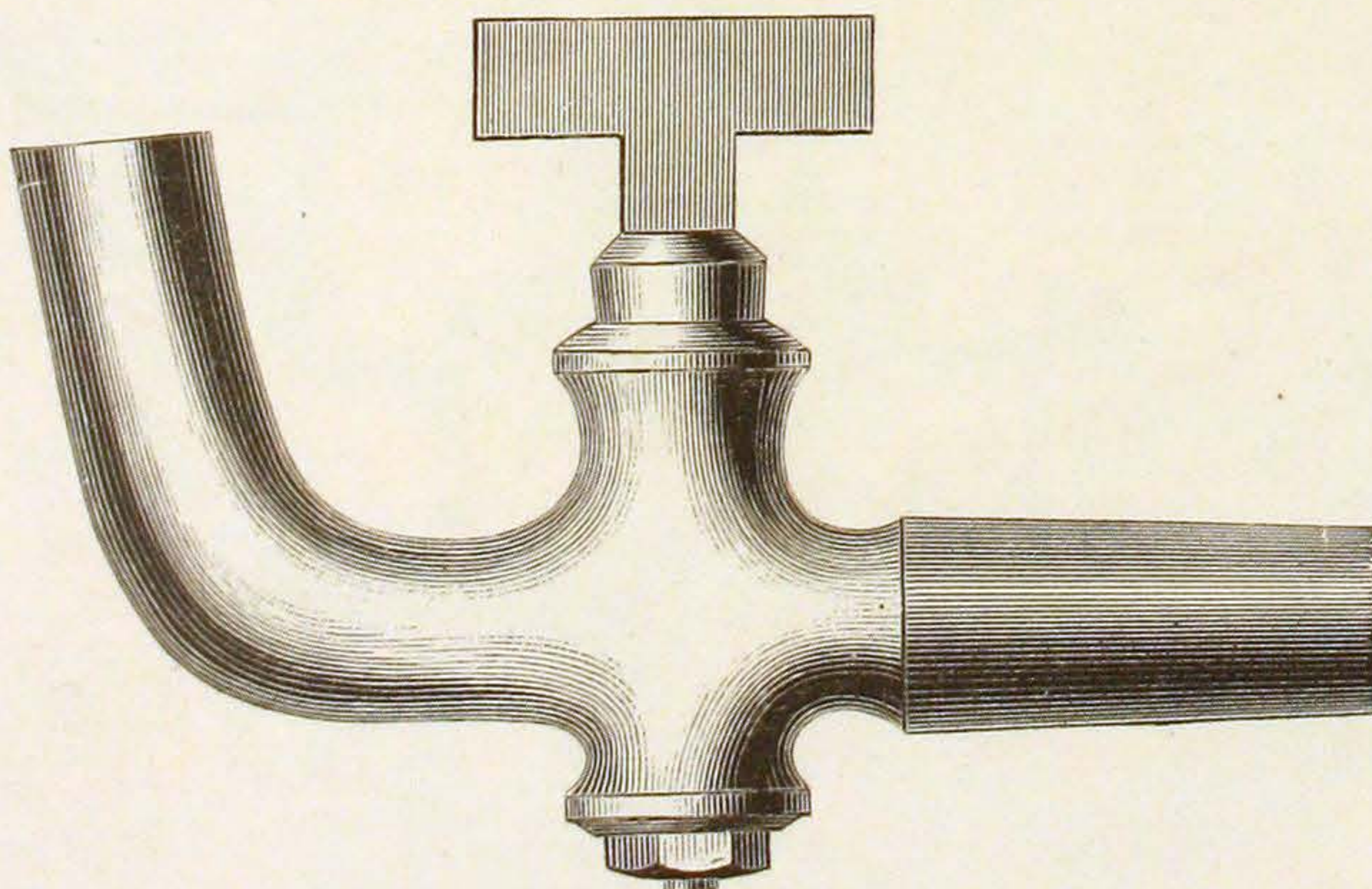
**Fig. 682.**



TO SOLDER.

NUT AND WASHER BOTTOM.

**Fig. 683.**

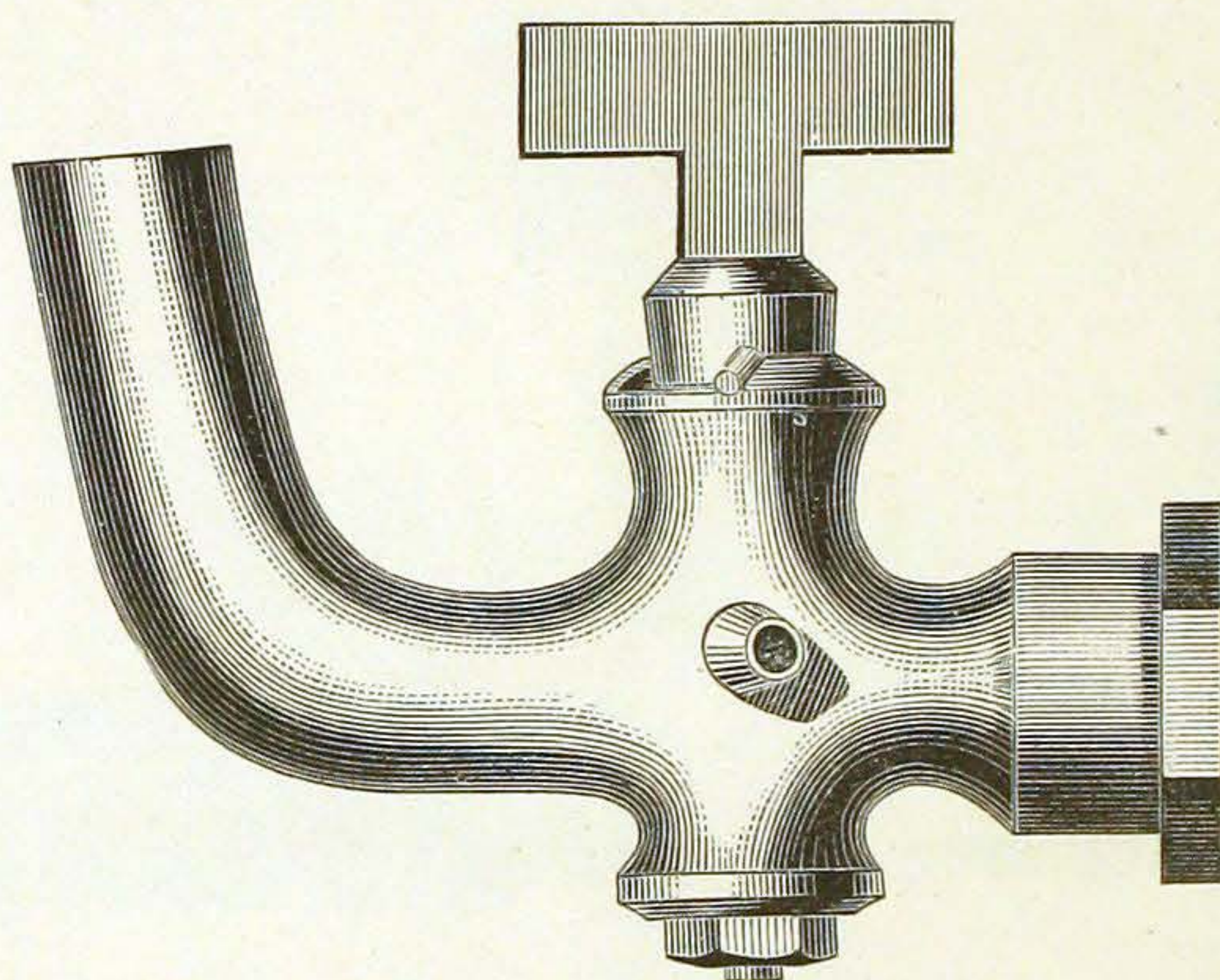




## ROUGH HYDRANT COCKS.

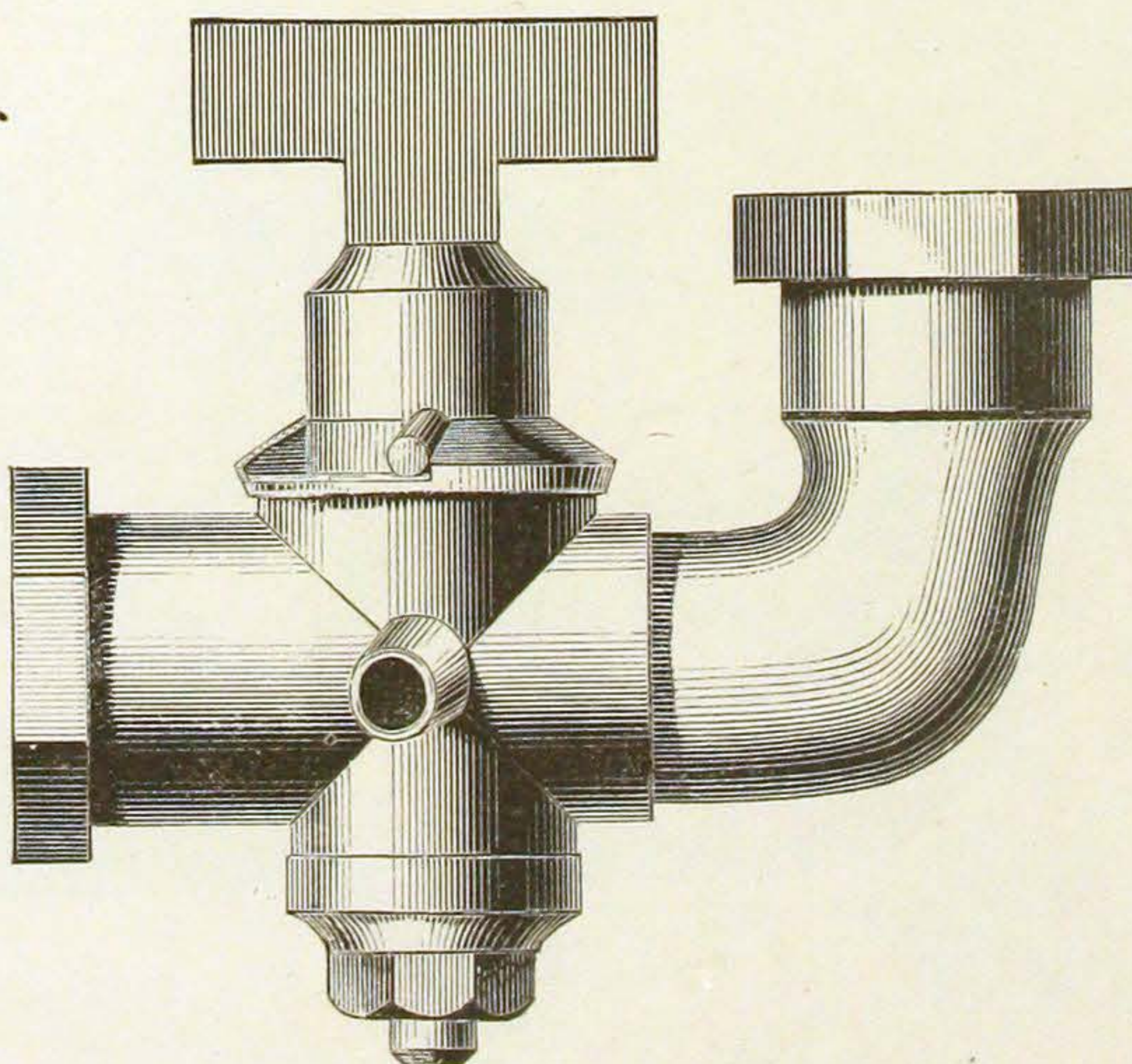
ONE END SCREWED FOR IRON PIPE.

Fig. 684.



SCREWED FOR IRON PIPE.

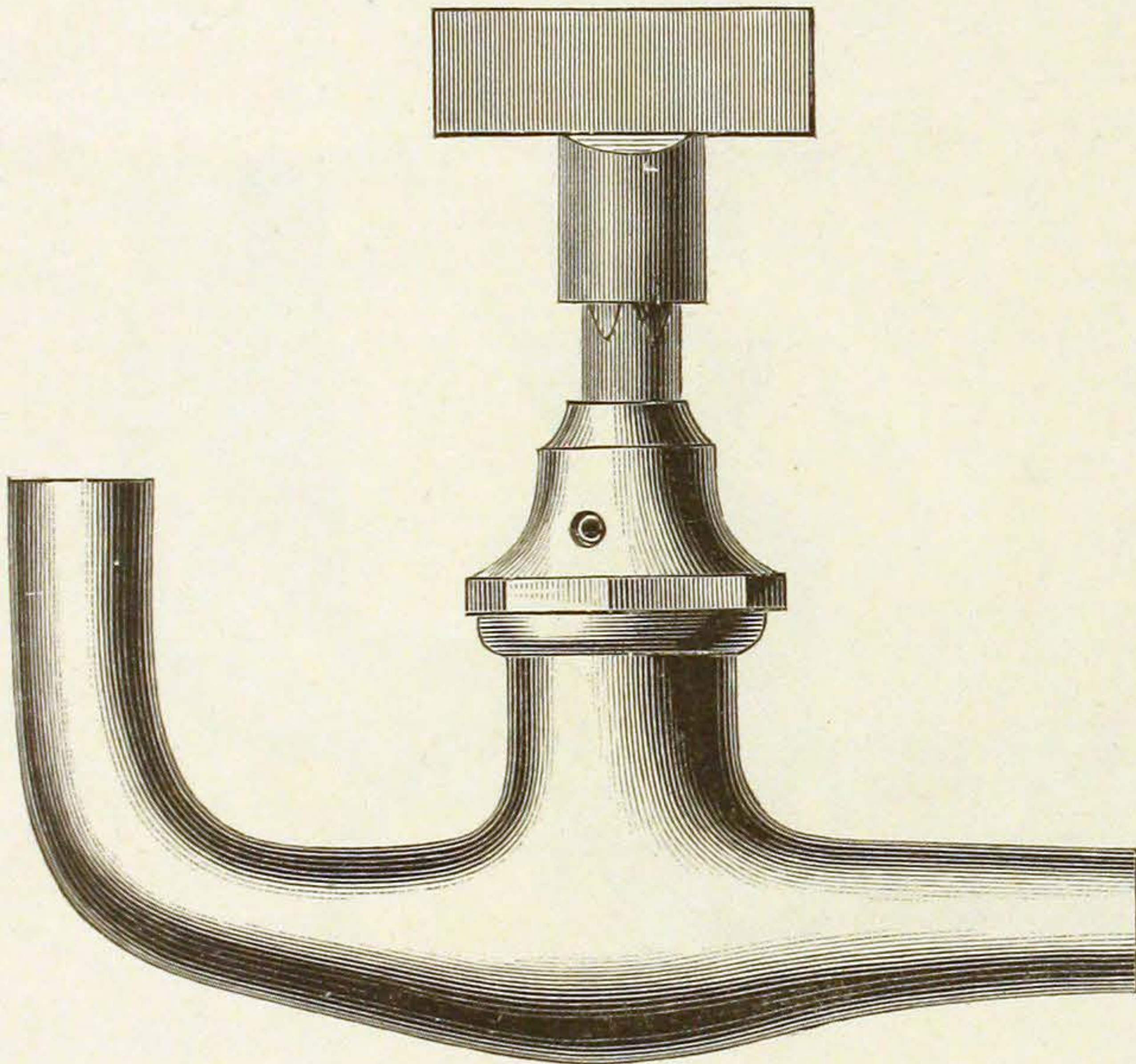
Fig. 685.



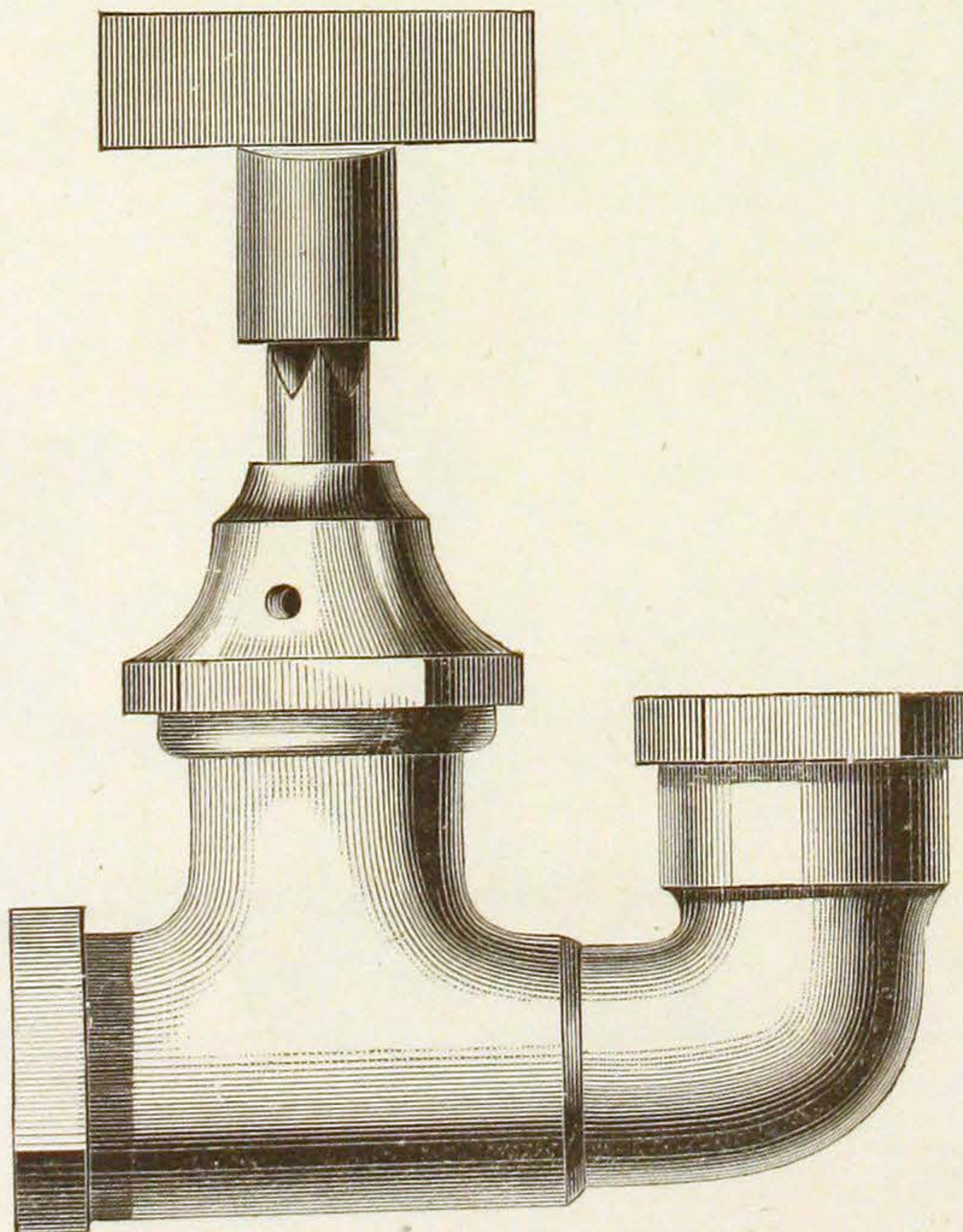


COMPRESSION HYDRANT COCKS.  
TO SOLDER.

Fig. 686.



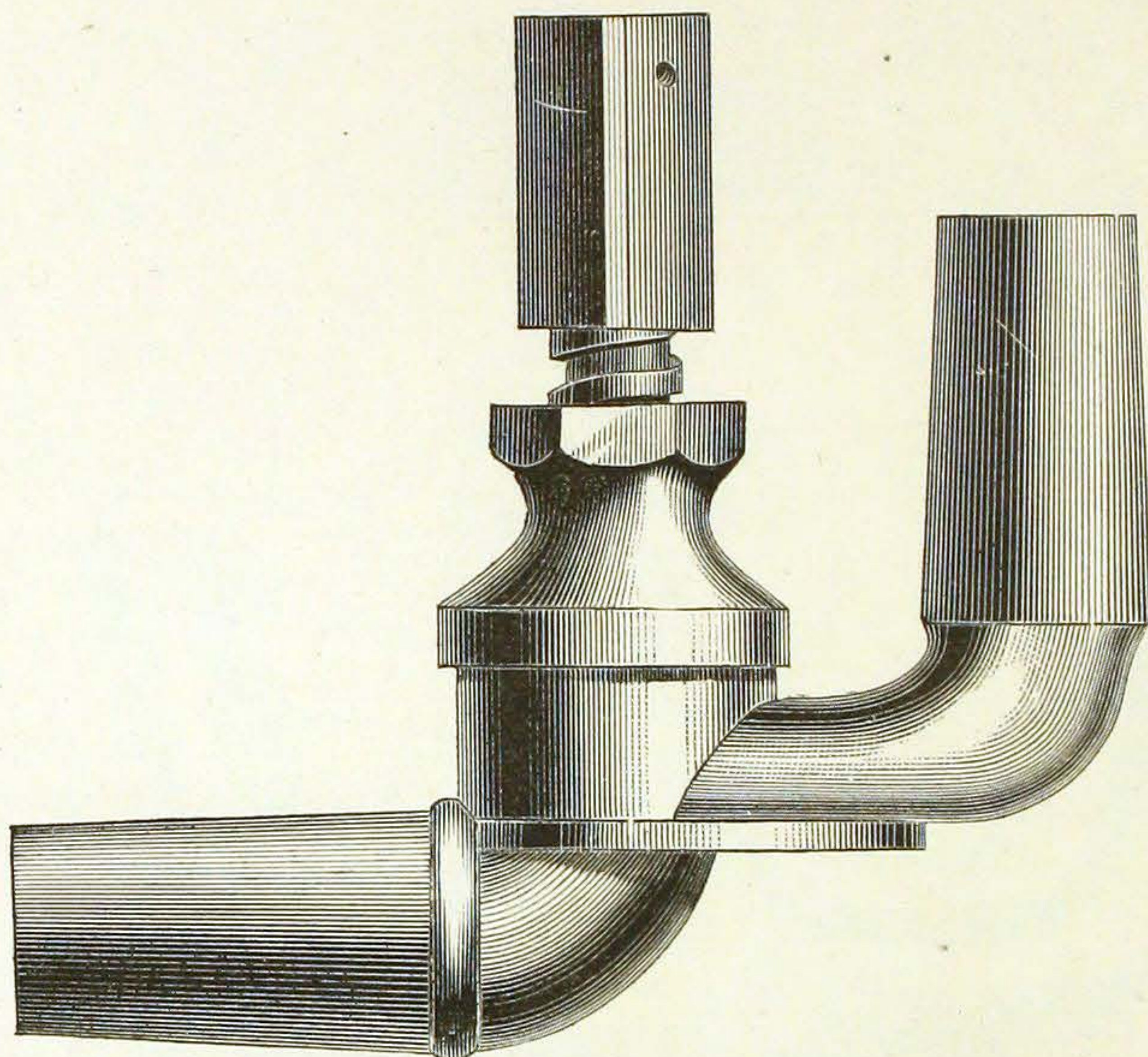
FOR IRON PIPE.  
Fig. 687.





## COMPRESSION HYDRANT COCK.

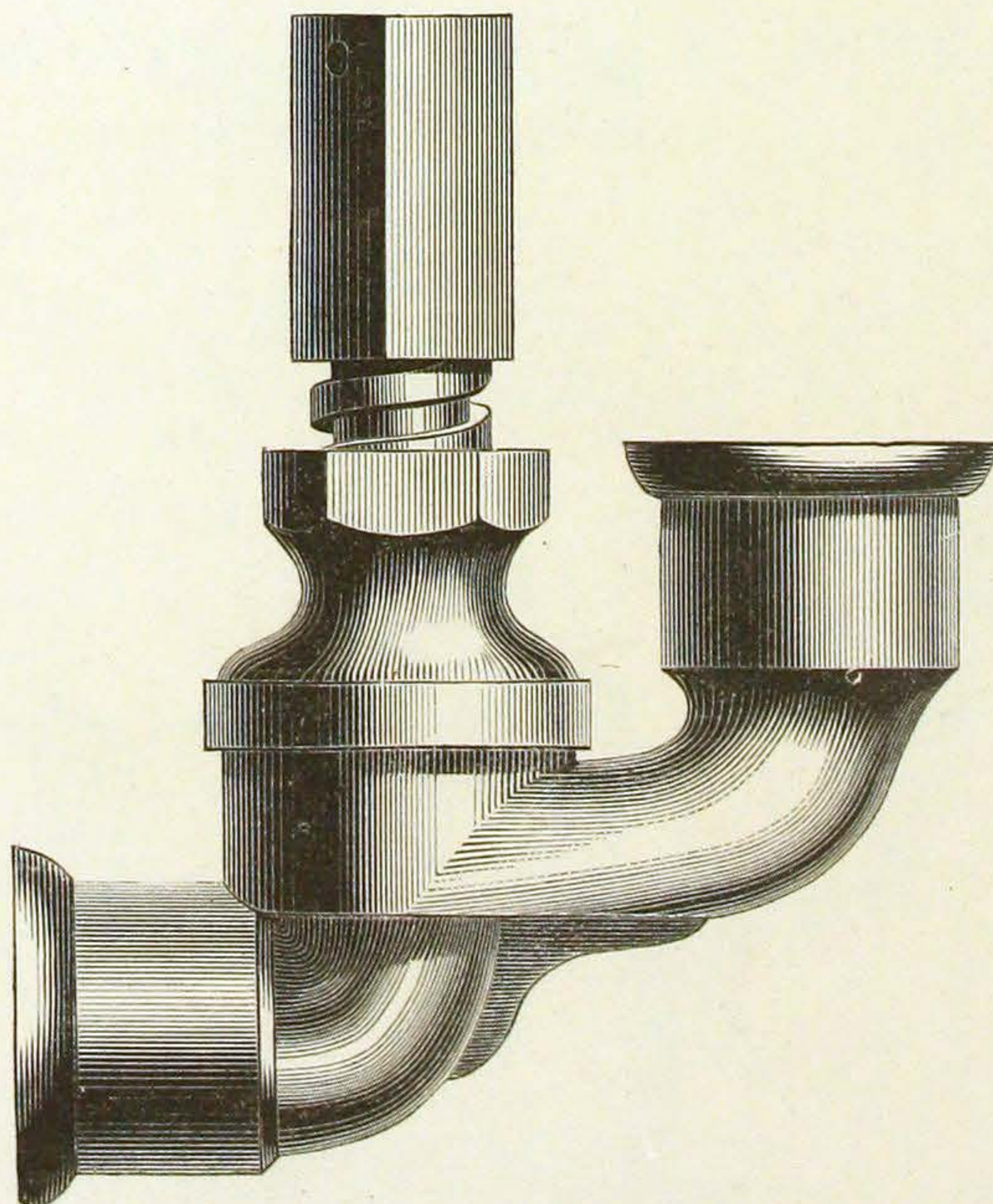
Fig. 688.



With Flange.

## FOR IRON PIPE.

Fig. 689.



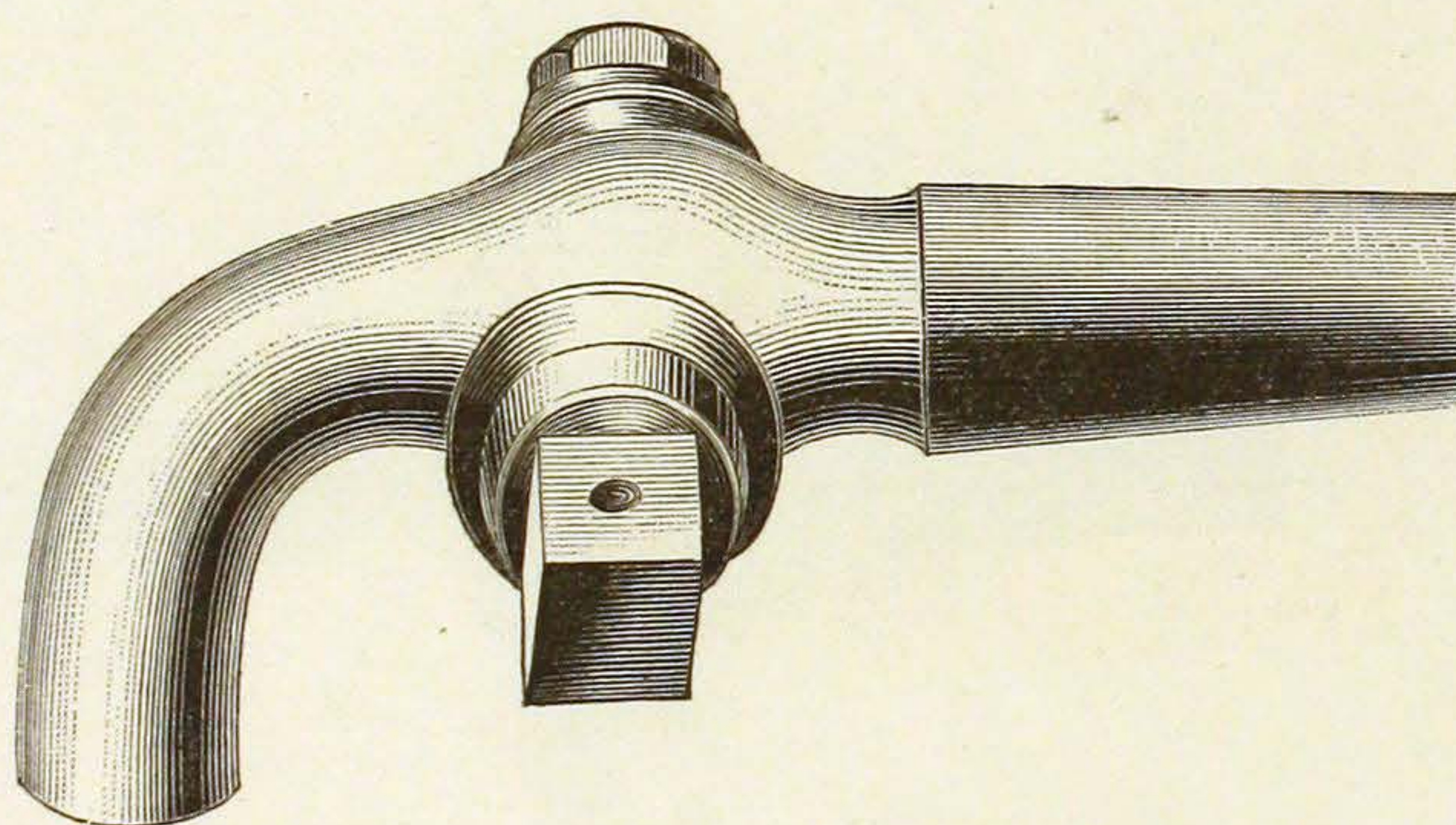
With Flange.



BALL COCKS.

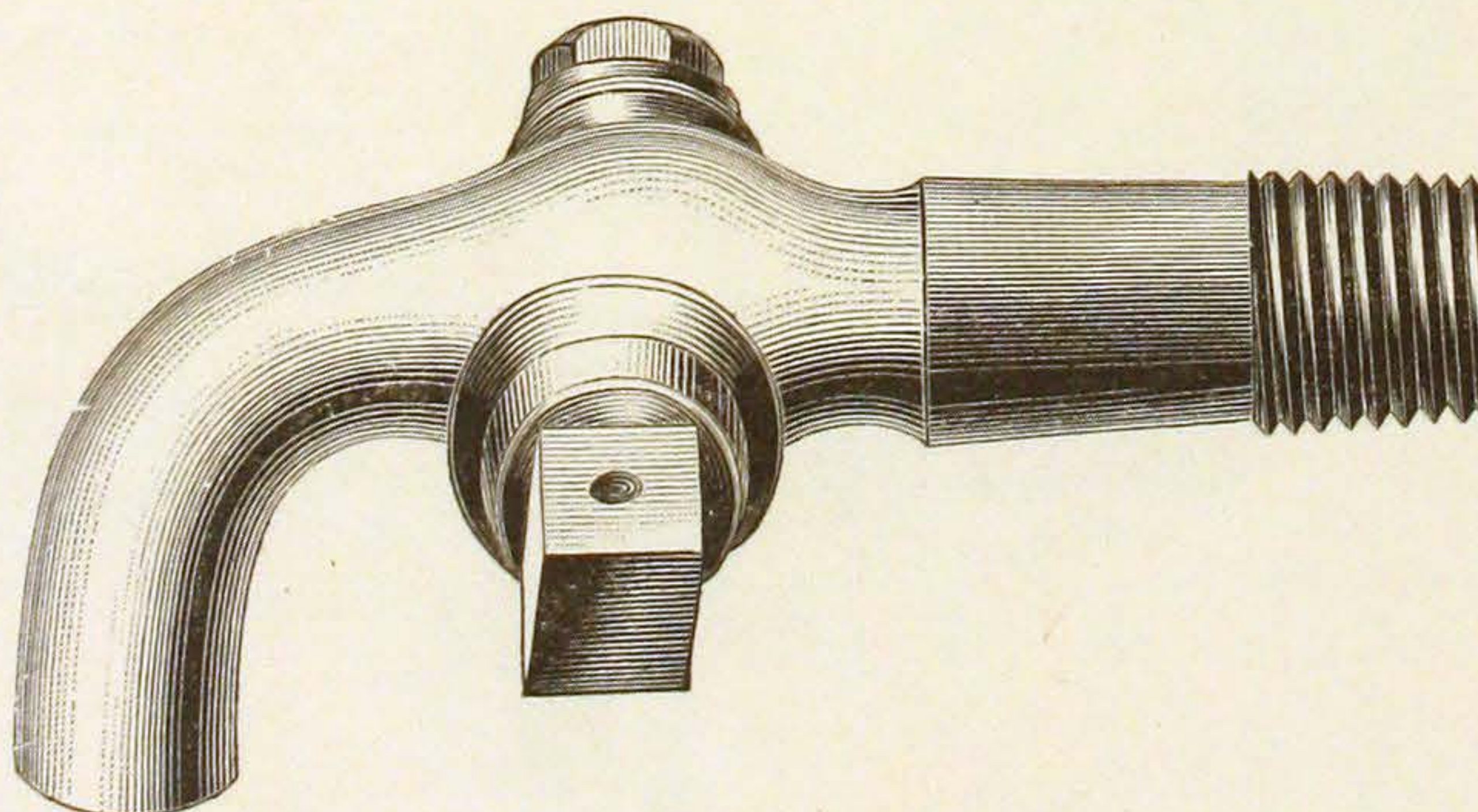
TO SOLDER.

**Fig. 690.**



FOR IRON PIPE.

**Fig. 691.**

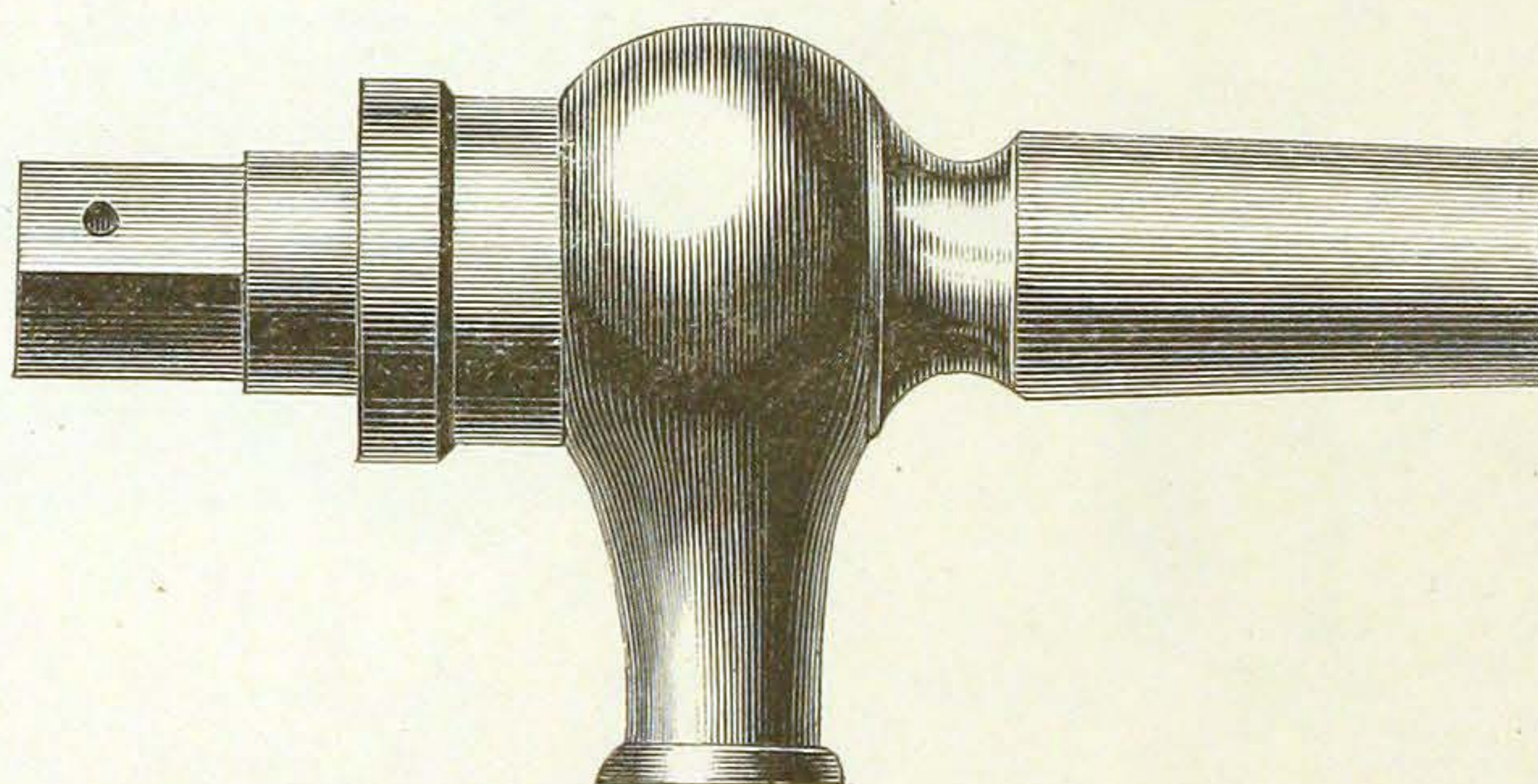




## COMPRESSION BALL COCKS.

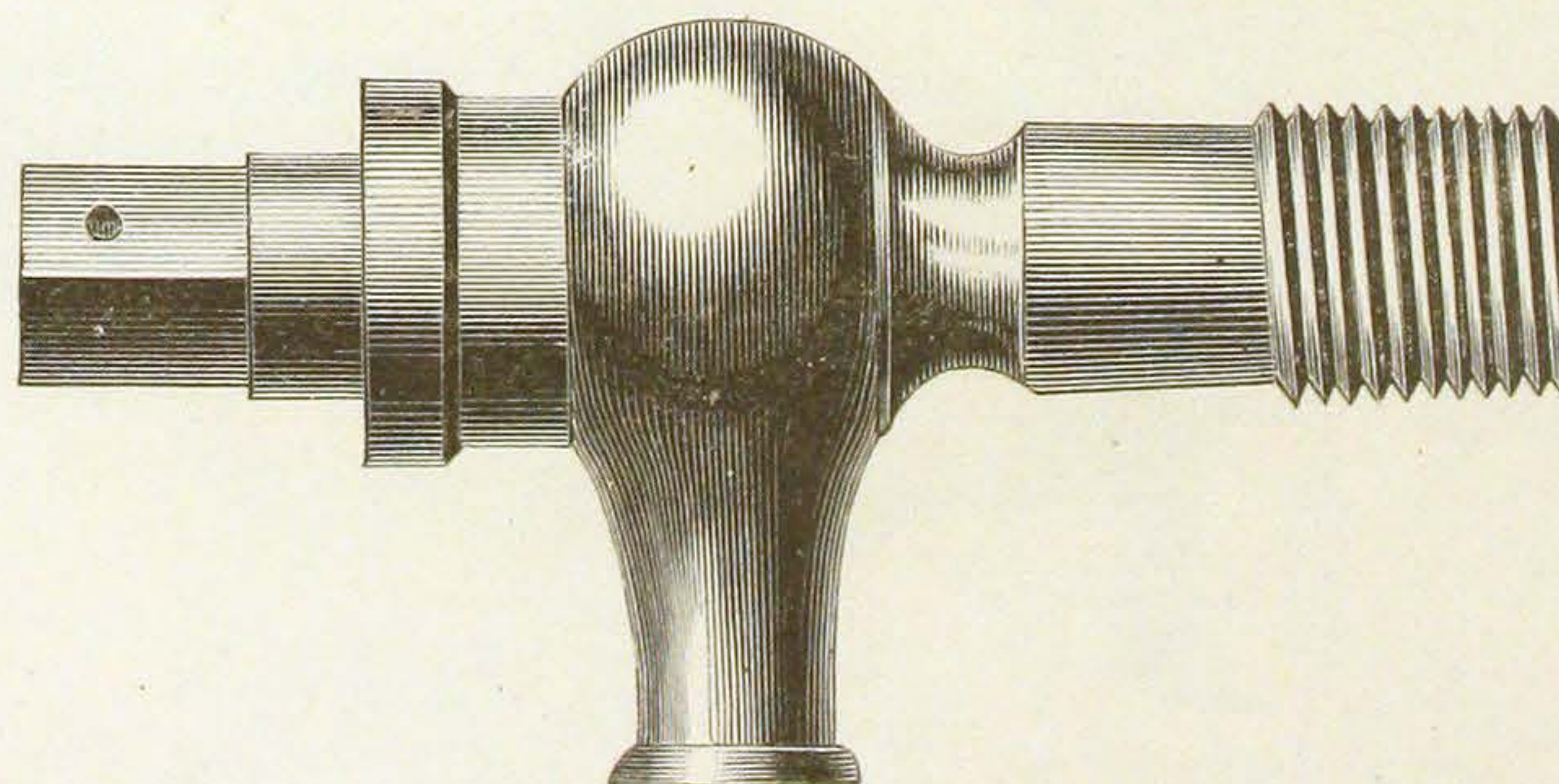
TO SOLDER.

Fig. 692.



FOR IRON PIPE.

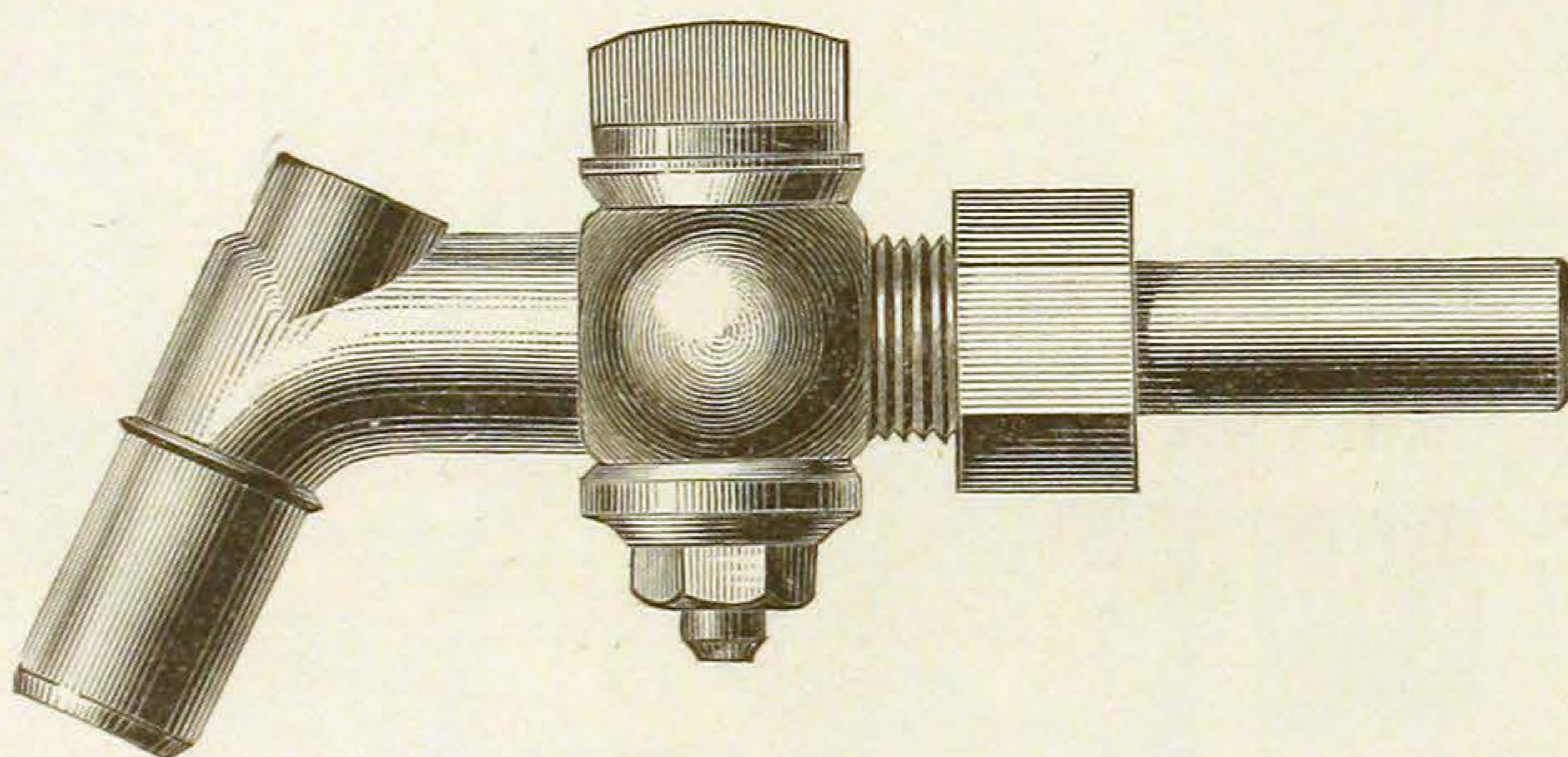
Fig. 693.





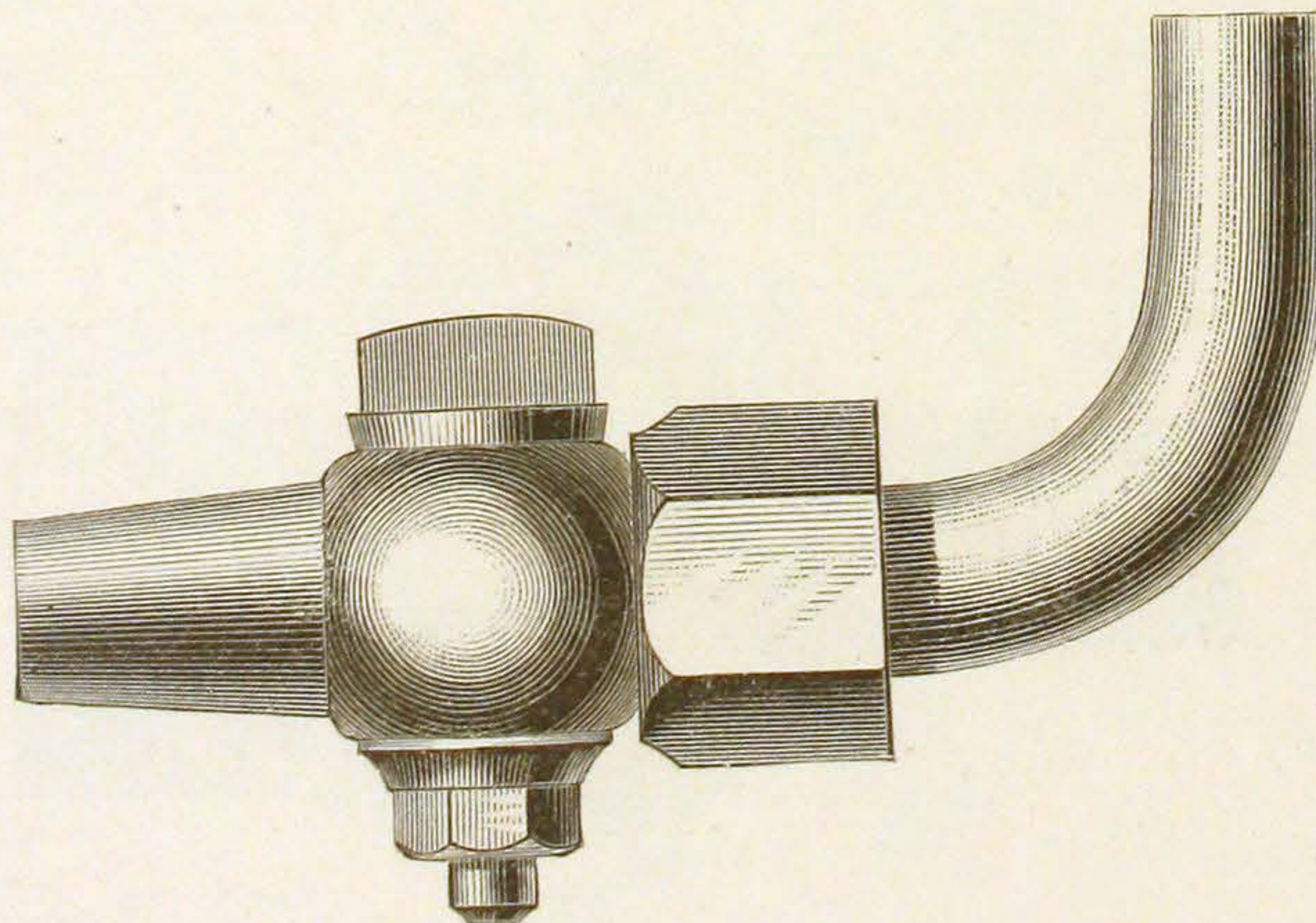
CORPORATION STOPS.  
TO DRIVE FOR IRON PIPE.

**Fig. 694.**



FOR CEMENT PIPE.

**Fig. 695.**

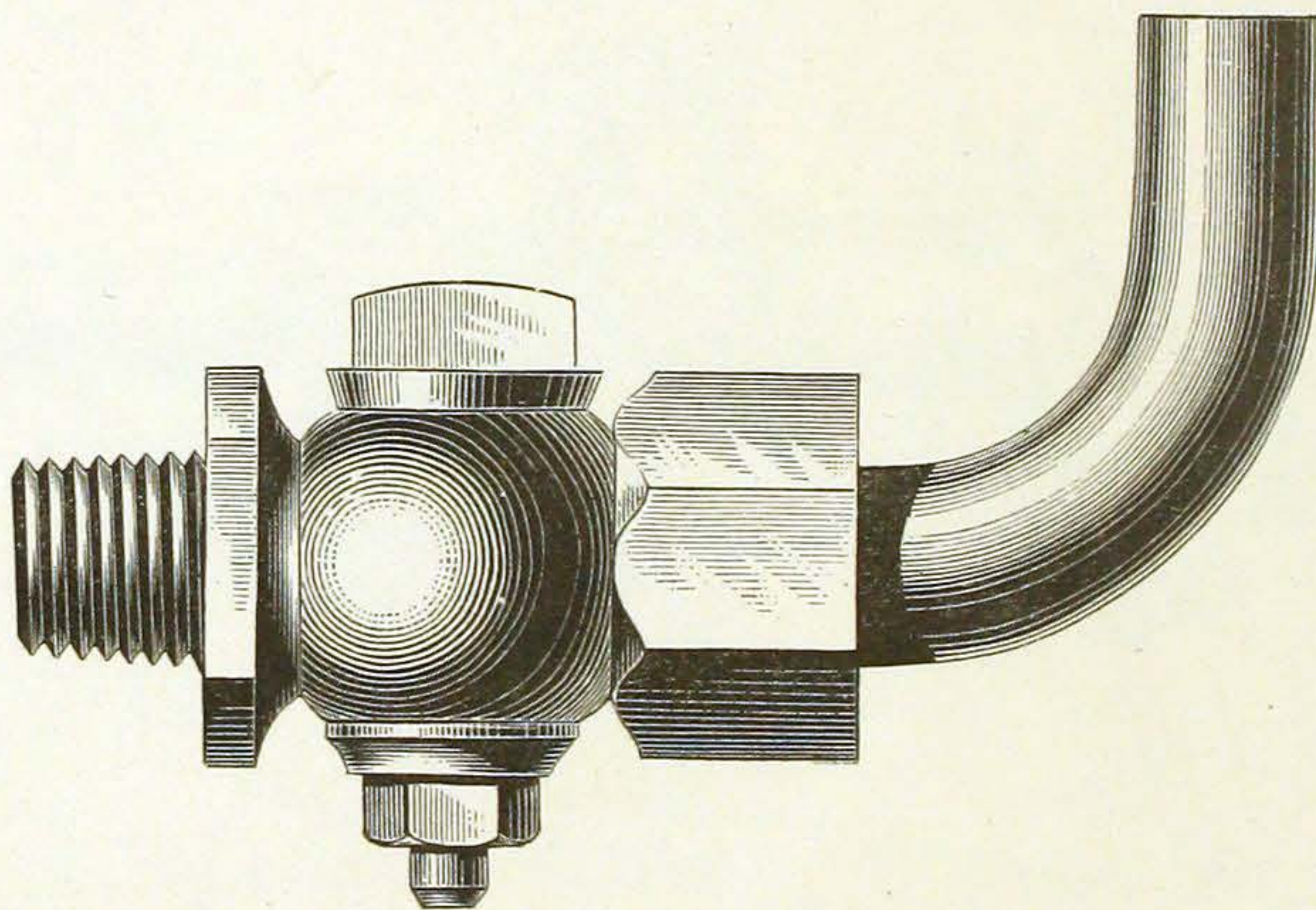




## CORPORATION STOPS.

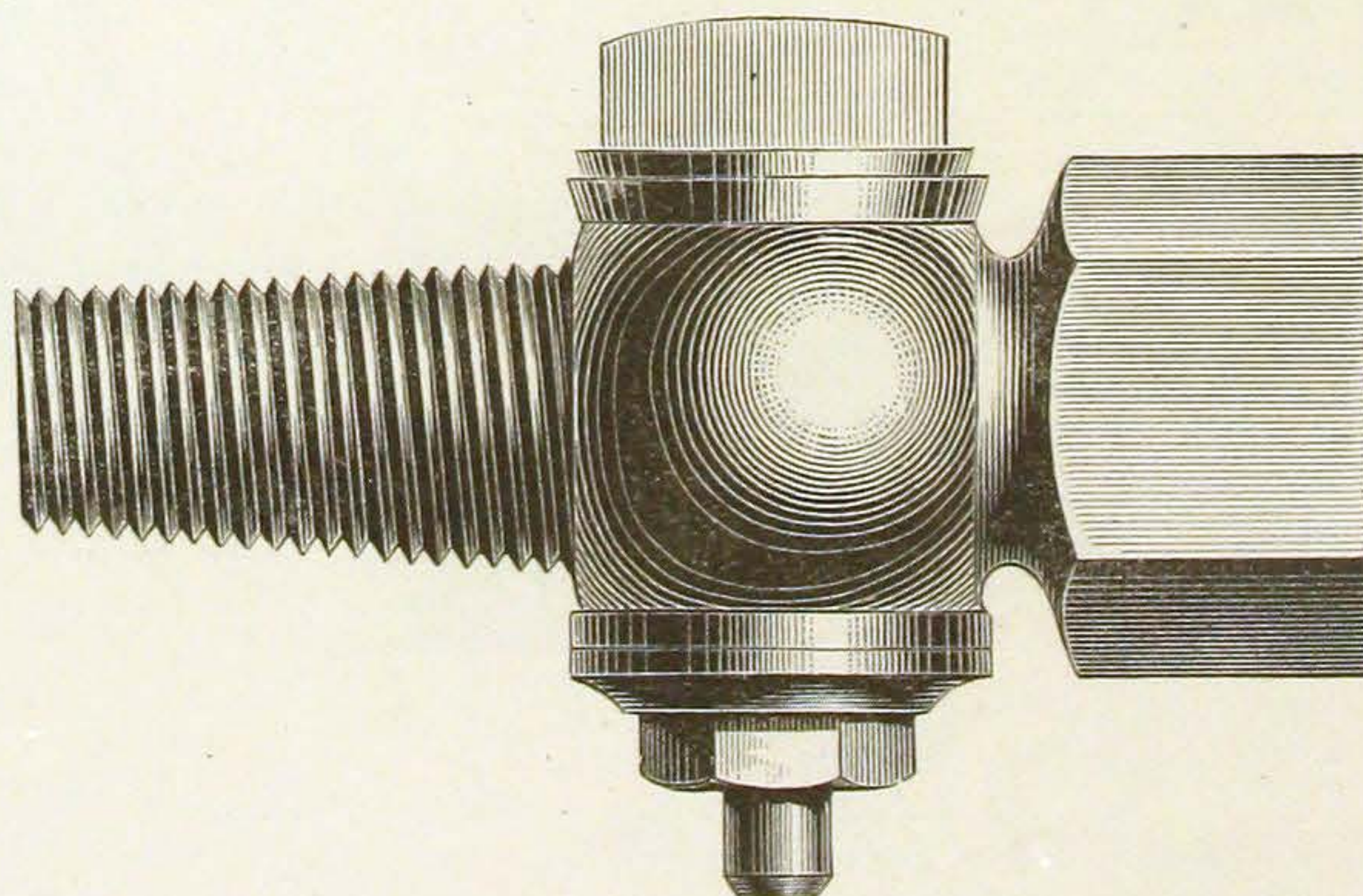
ONE END SCREWED FOR IRON PIPE.

Fig. 696.



BOTH ENDS SCREWED FOR IRON PIPE.

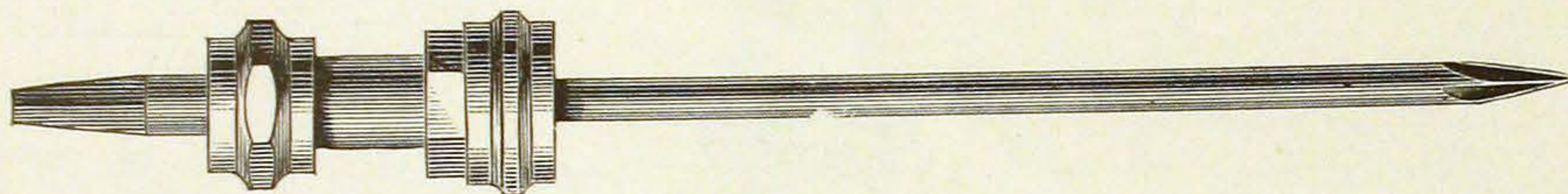
Fig. 697.





# DRILL AND STUFFING BOX, For Tapping Cement Pipe.

**Fig. 698.**

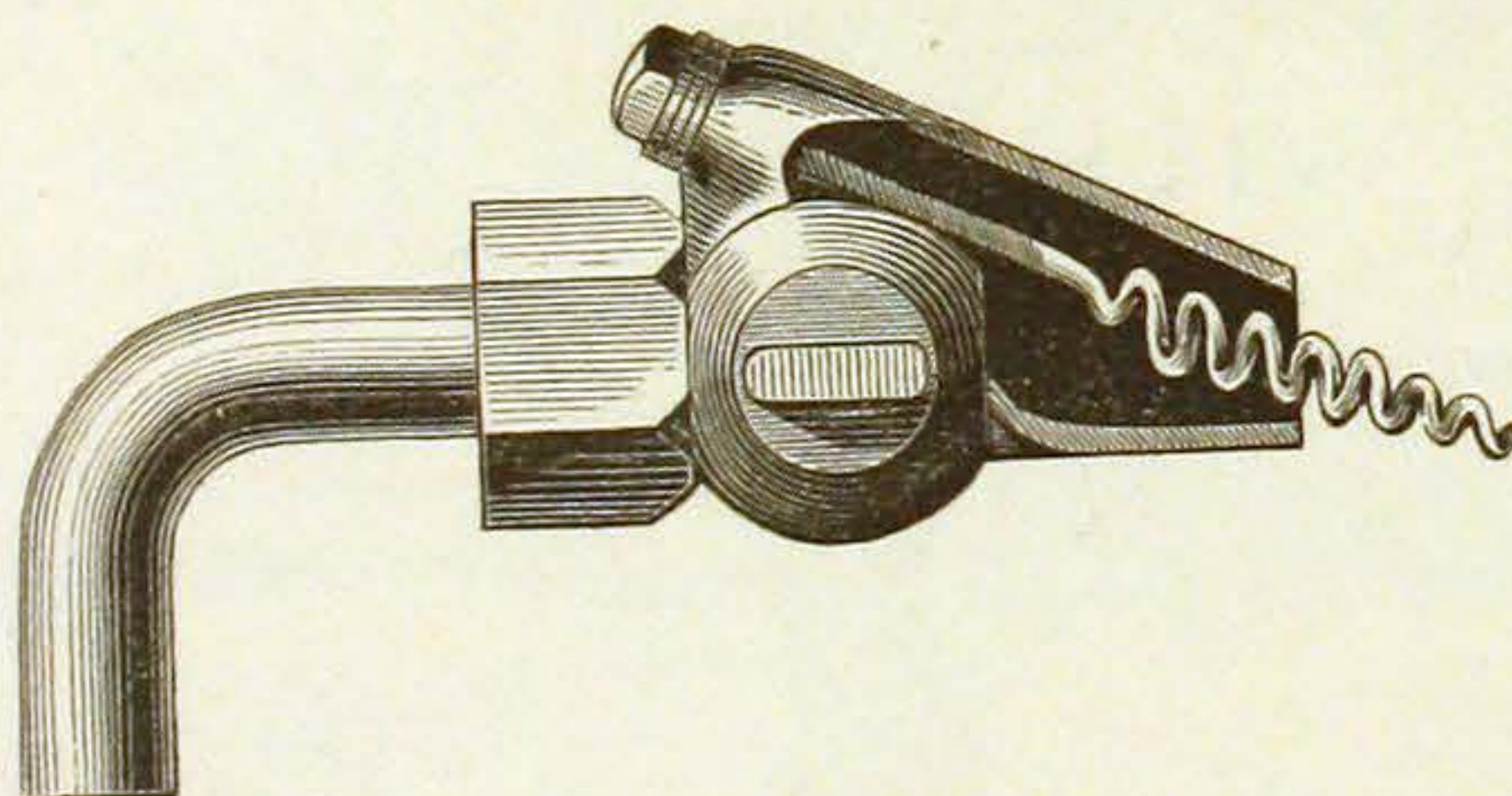


# CORPORATION STOPS.

DUTCHER'S PATENT.

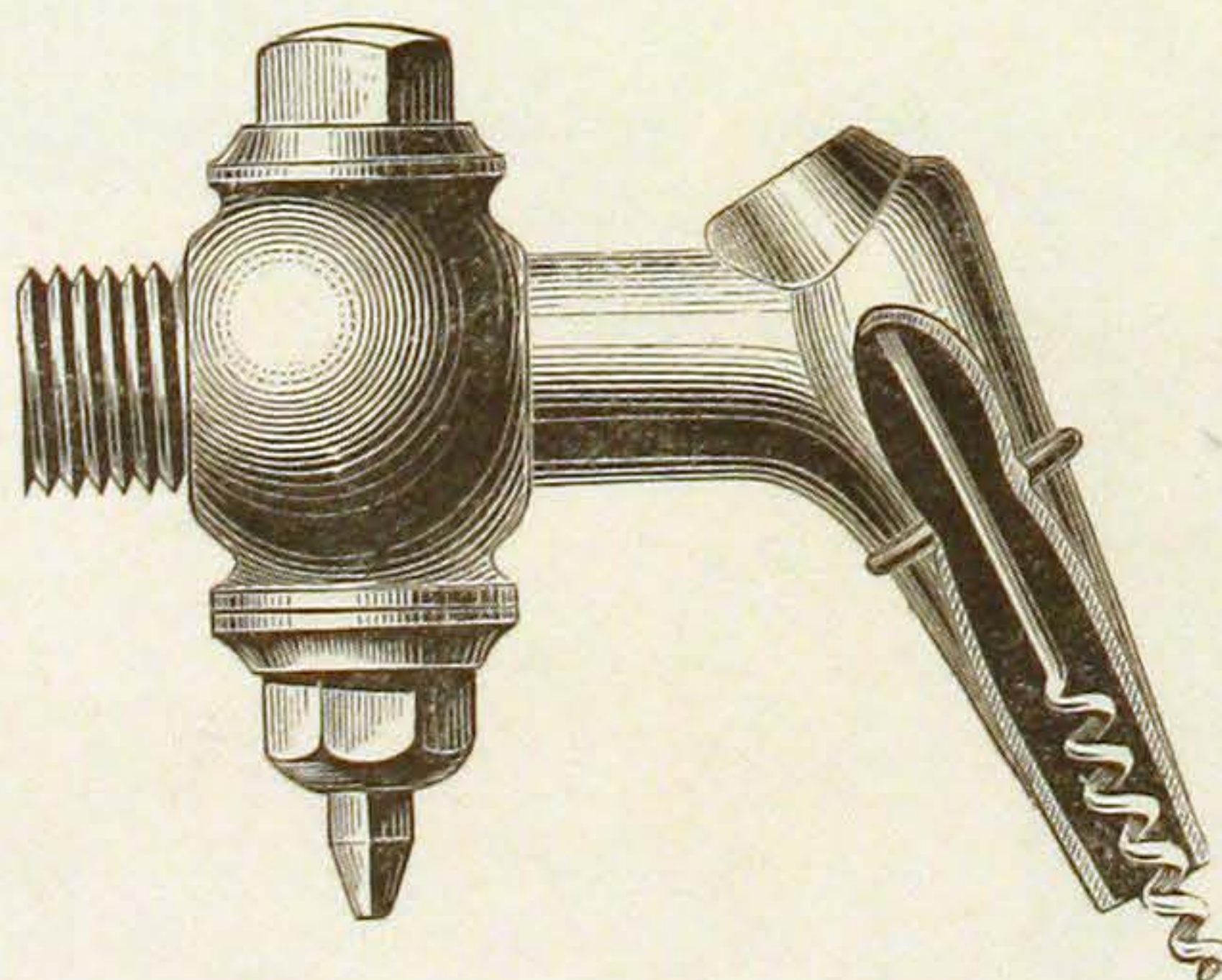
To Prevent Eels, Fish, &c. from Obstructing Pipe.

**Fig. 699.**



To Solder.

**Fig. 700.**

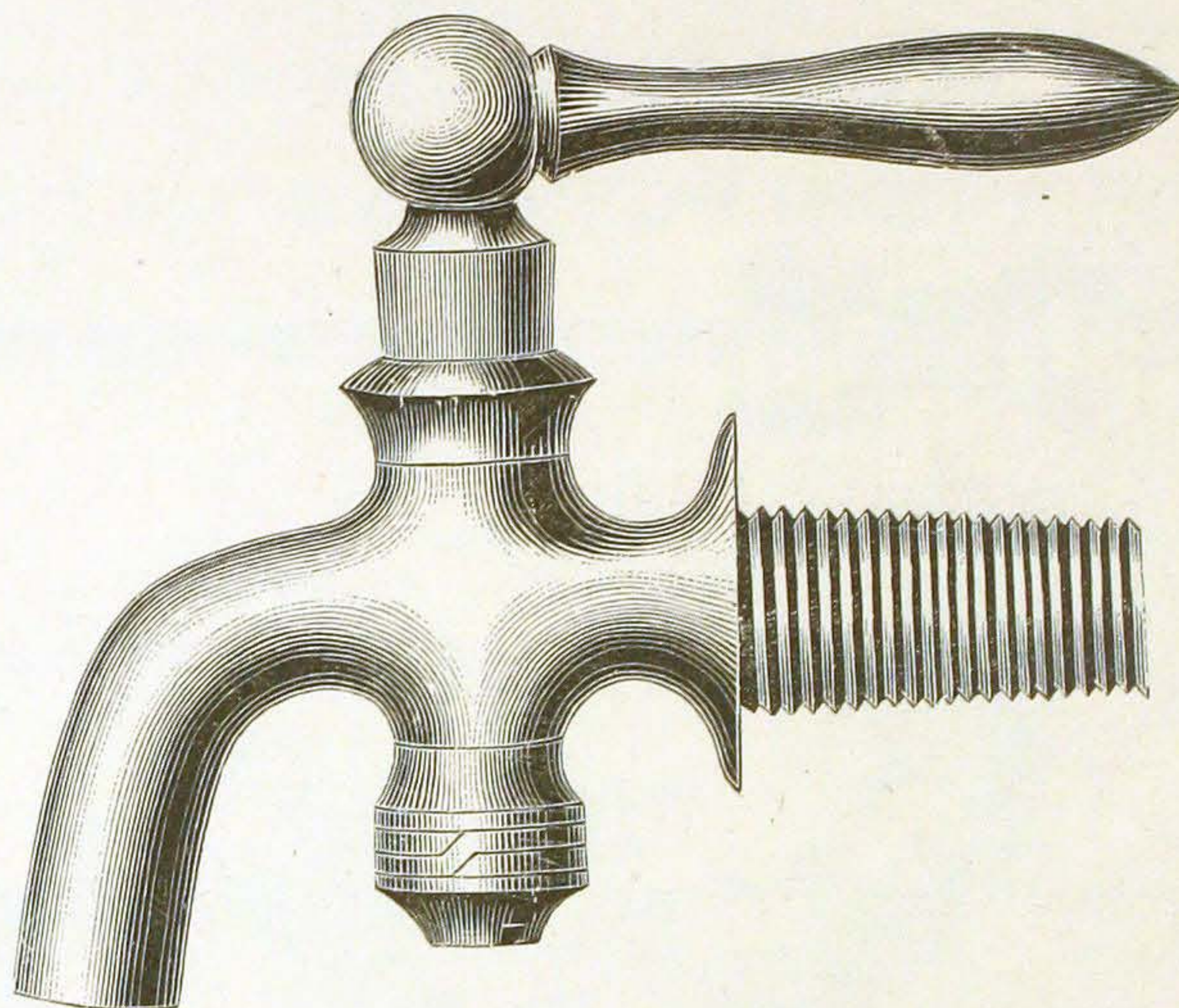


To Screw.



## CISTERN COCKS.

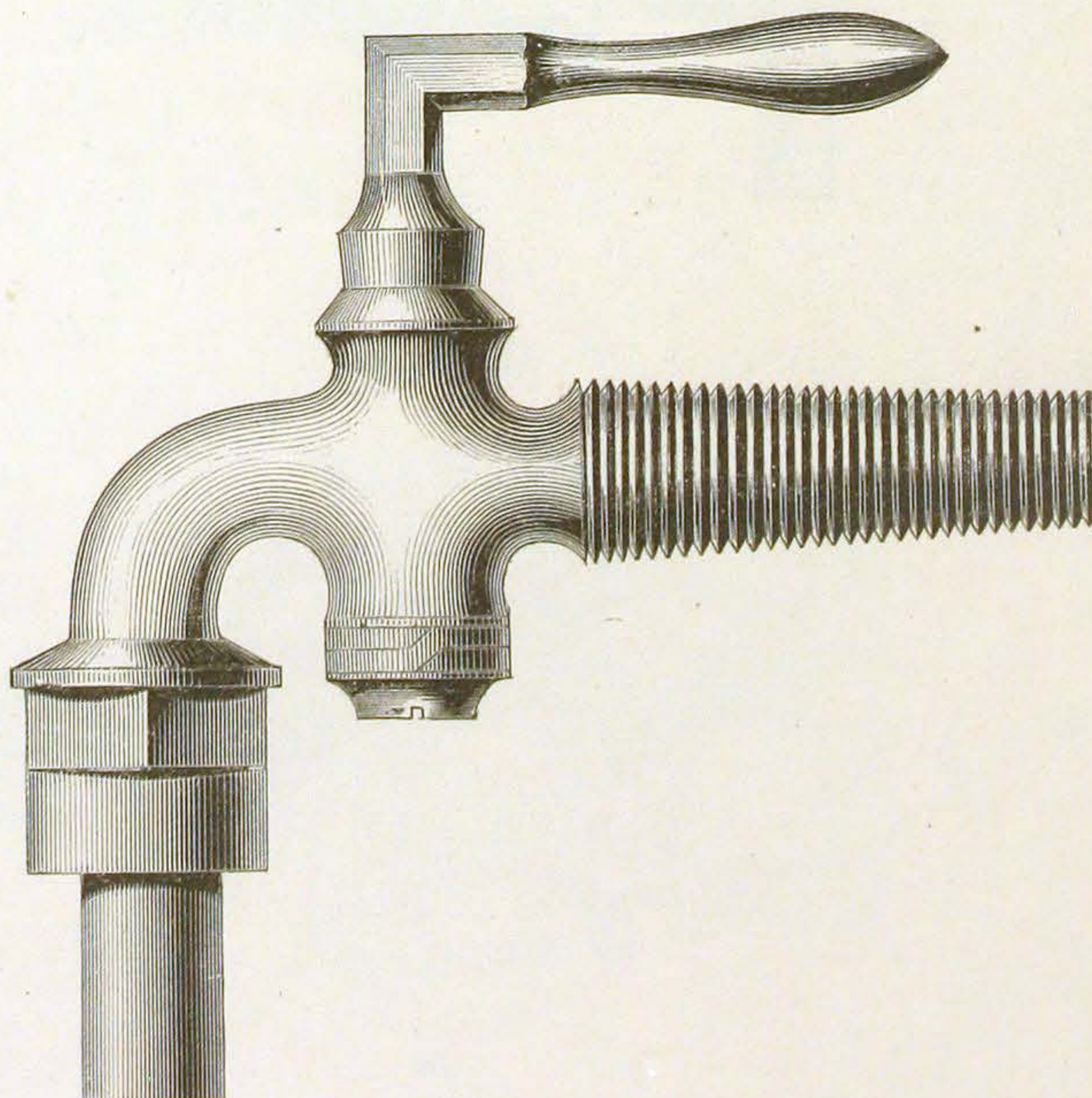
Fig. 701.



Finished and Rough.

## WITH COUPLING.

Fig. 702.

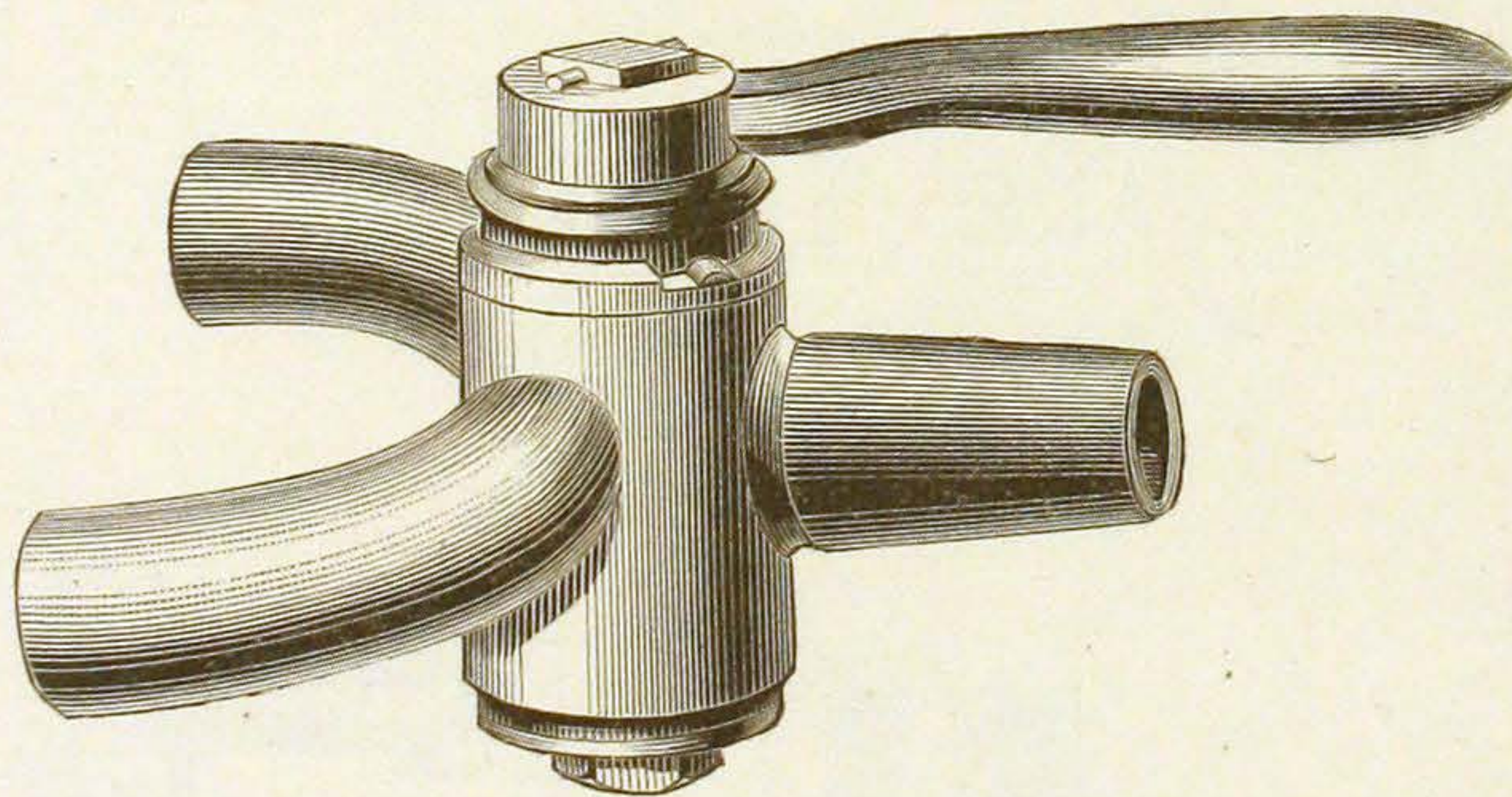


Rough.



RAIN AND WELL WATER COCK.

**Fig. 703.**

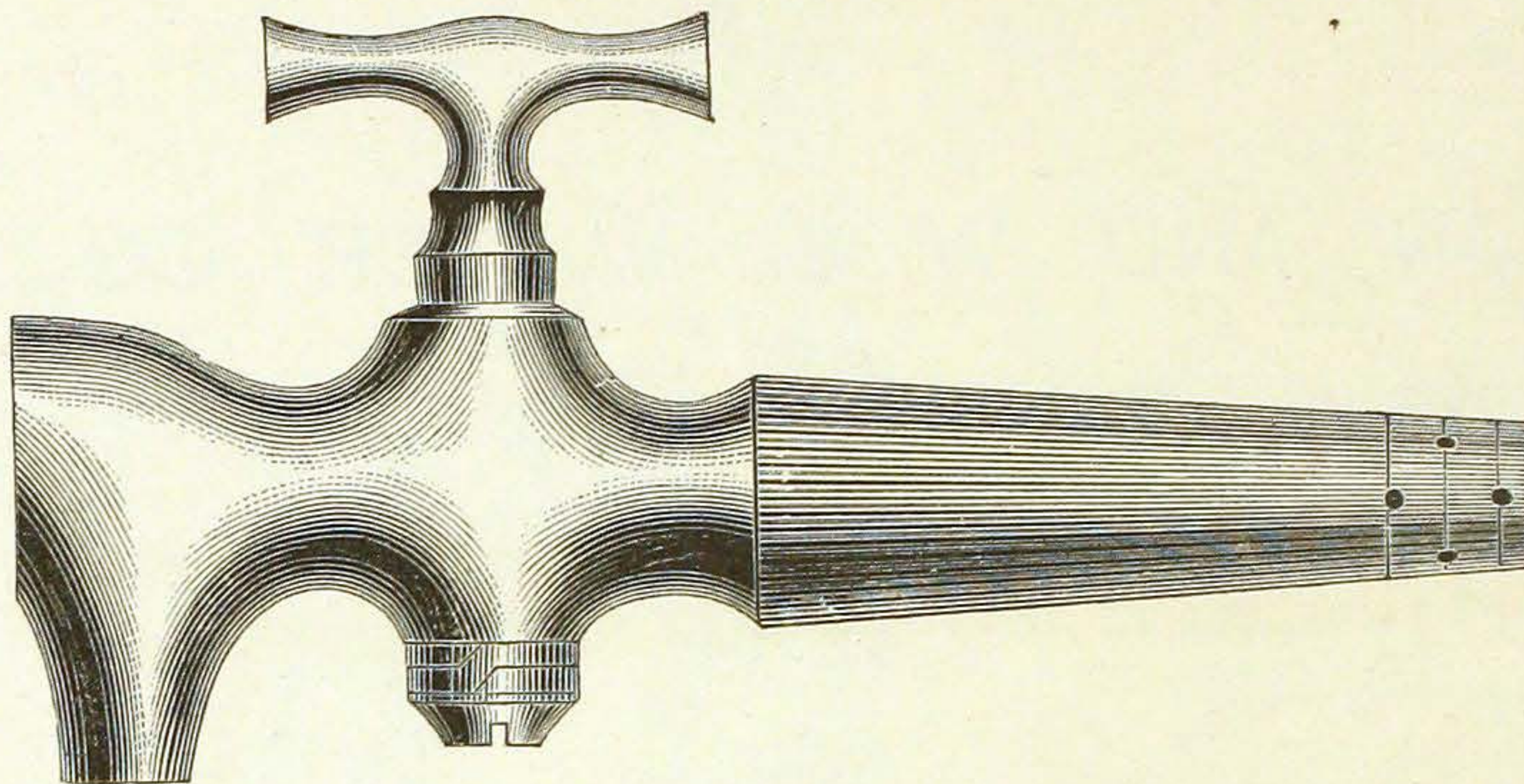


Rough.



## ALE OR BEER COCK.

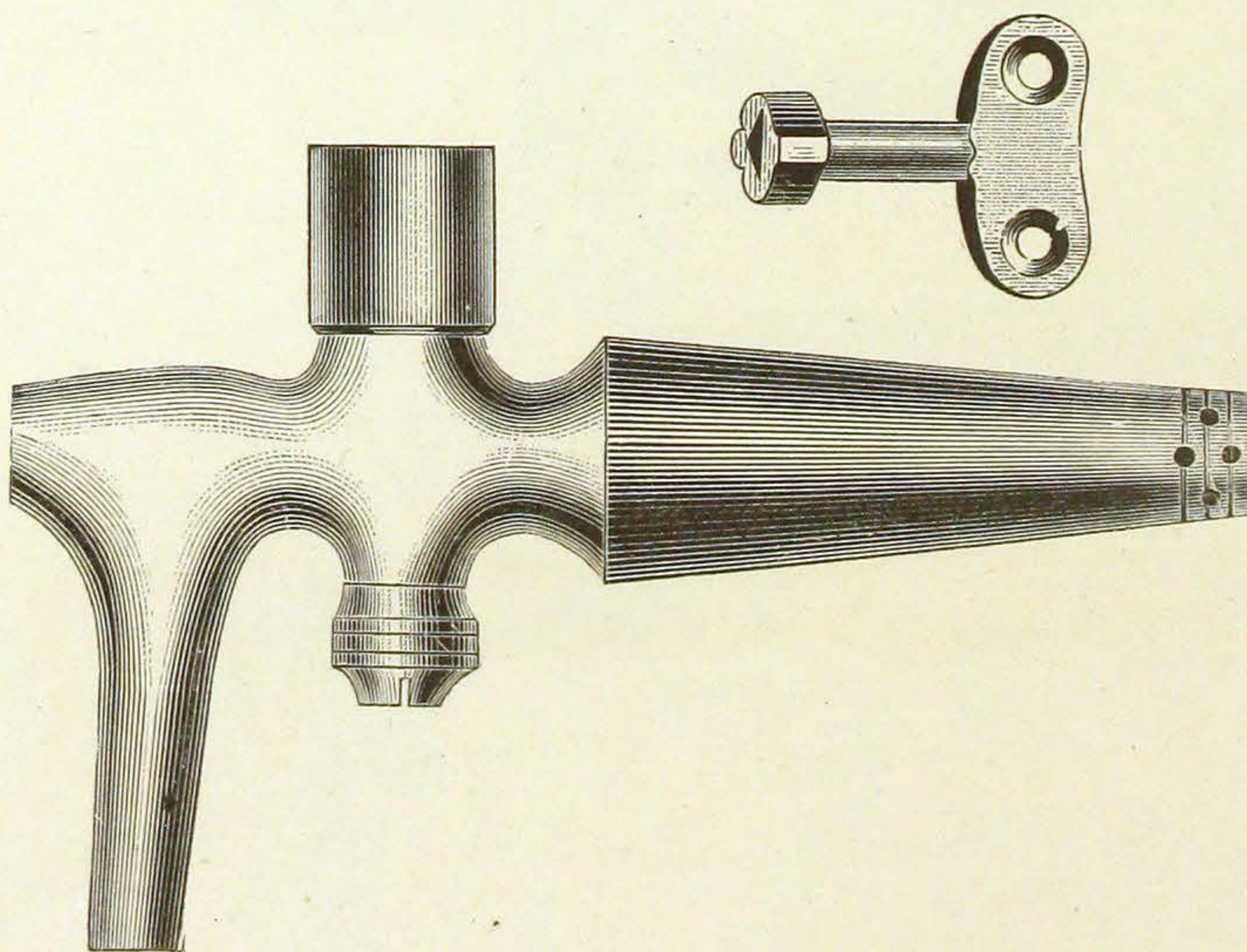
Fig. 704.



Finished.

## ALE LOCK COCK.

Fig. 705.



Finished.

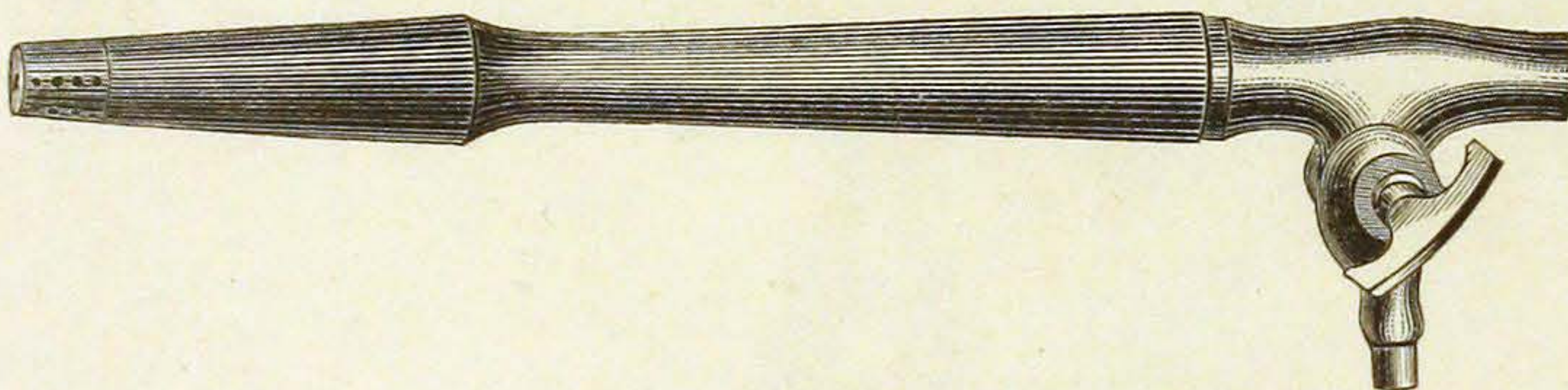


BEER COCKS, LONG SHANKS.

SIDE KEY.

FOR ICE CHEST.

**Fig. 706.**

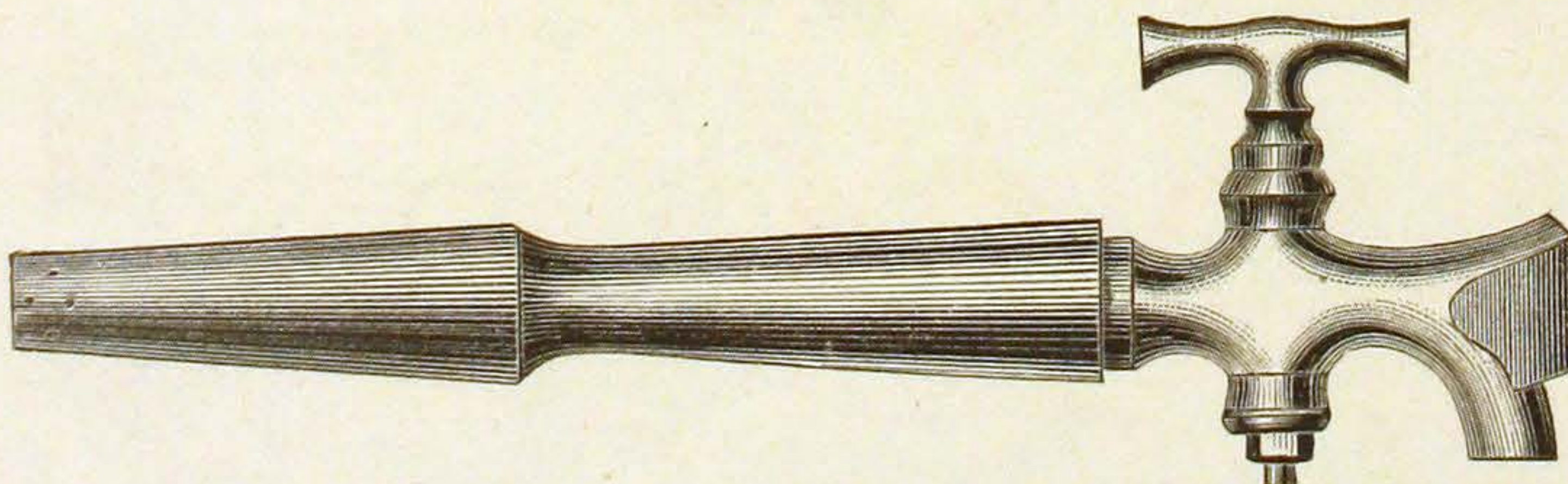


**Finished.**

14, 16 and 18 inch Shank.

FOR ICE CHEST.

**Fig. 707.**



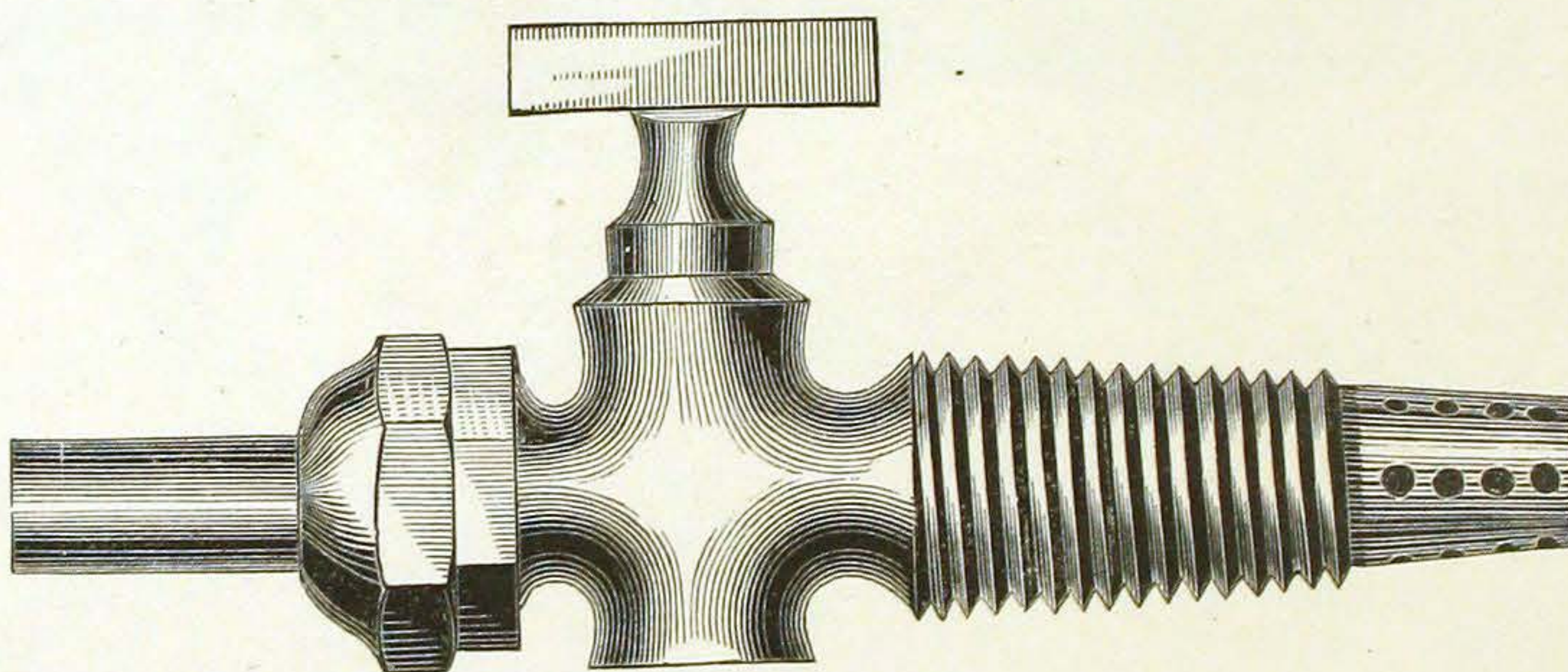
**Finished.**

14, 16 and 18 inch Shank.



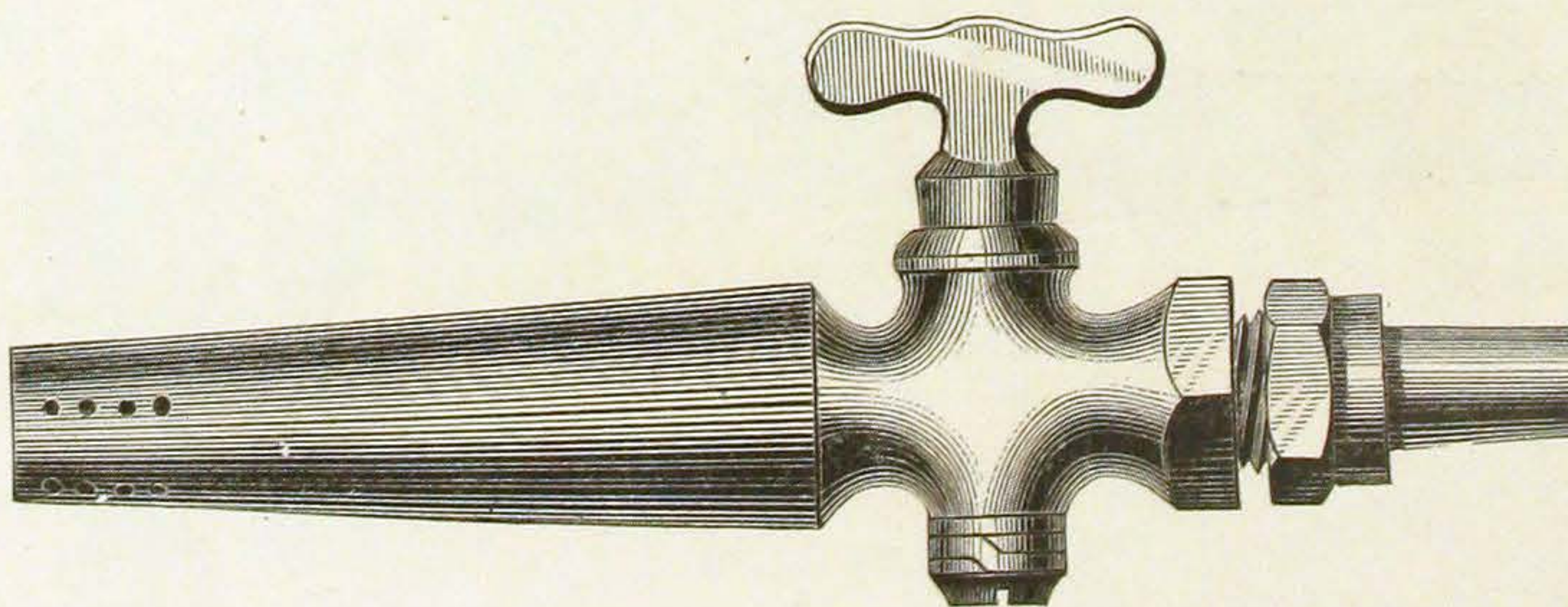
ROUGH BEER COCKS.  
WITH COUPLING.

**Fig. 708.**



LONG SHANK, WITH COUPLING.

**Fig. 709.**

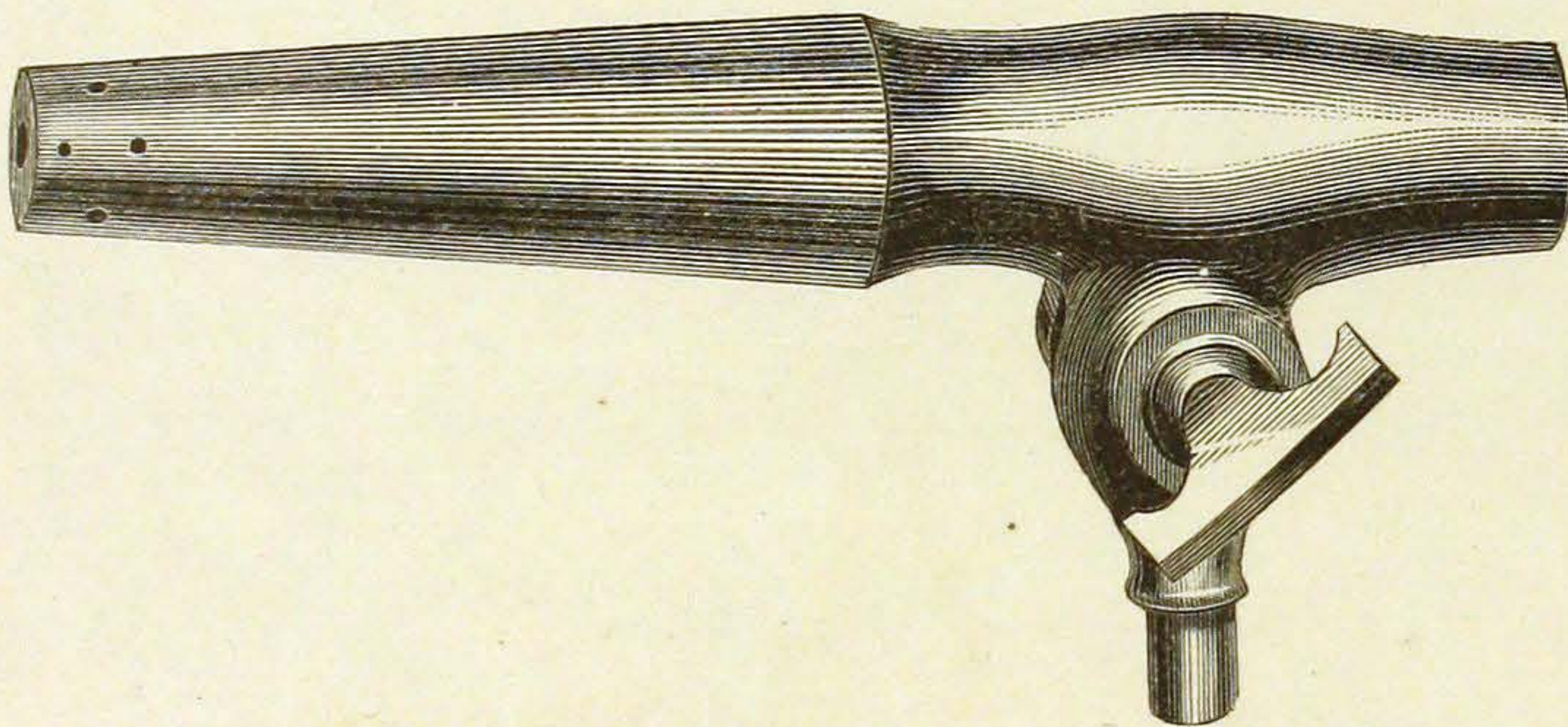




## BEER COCKS.

### SIDE KEY.

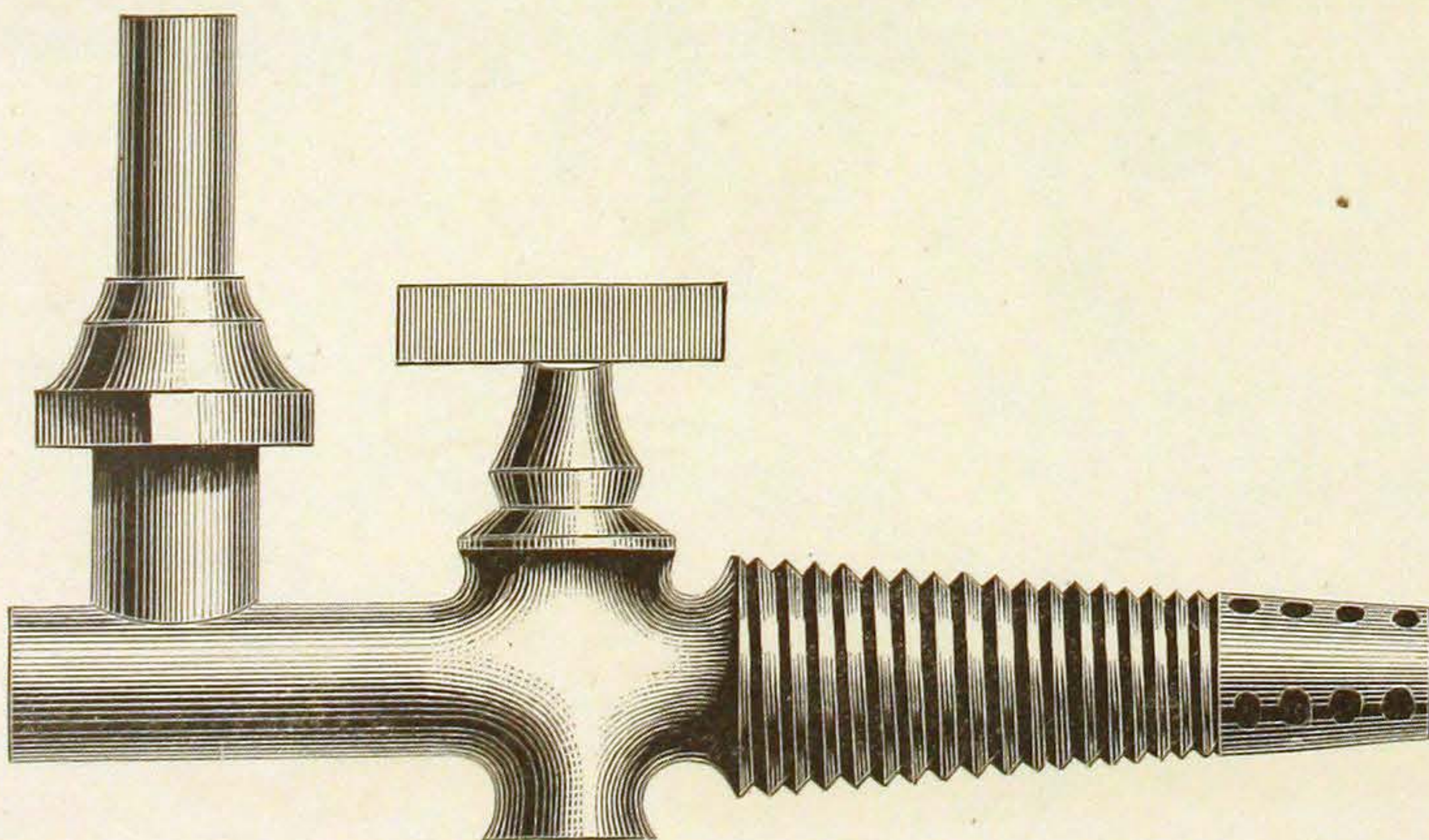
**Fig. 710.**



**Finished.**

### COUPLING ON TOP.

**Fig. 711.**

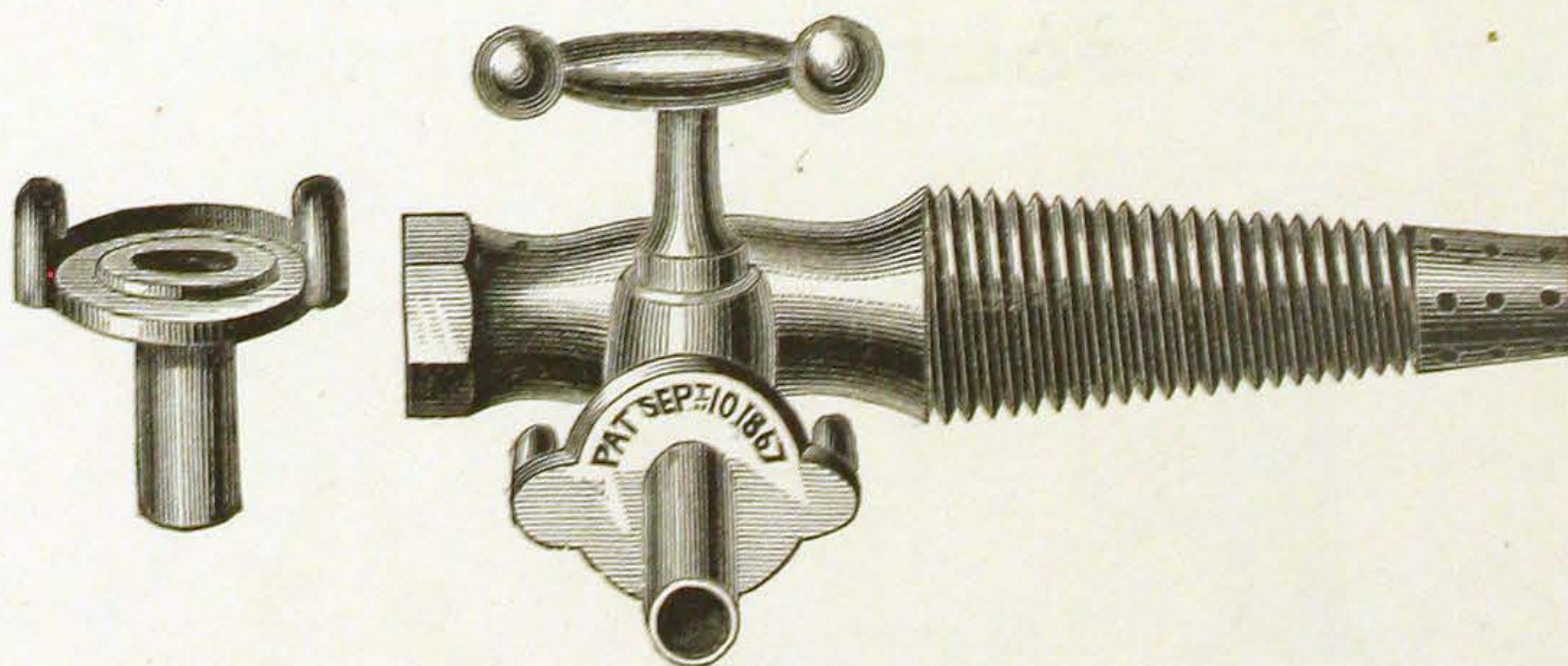


**Rough.**



## EMPIRE BEER COCK.

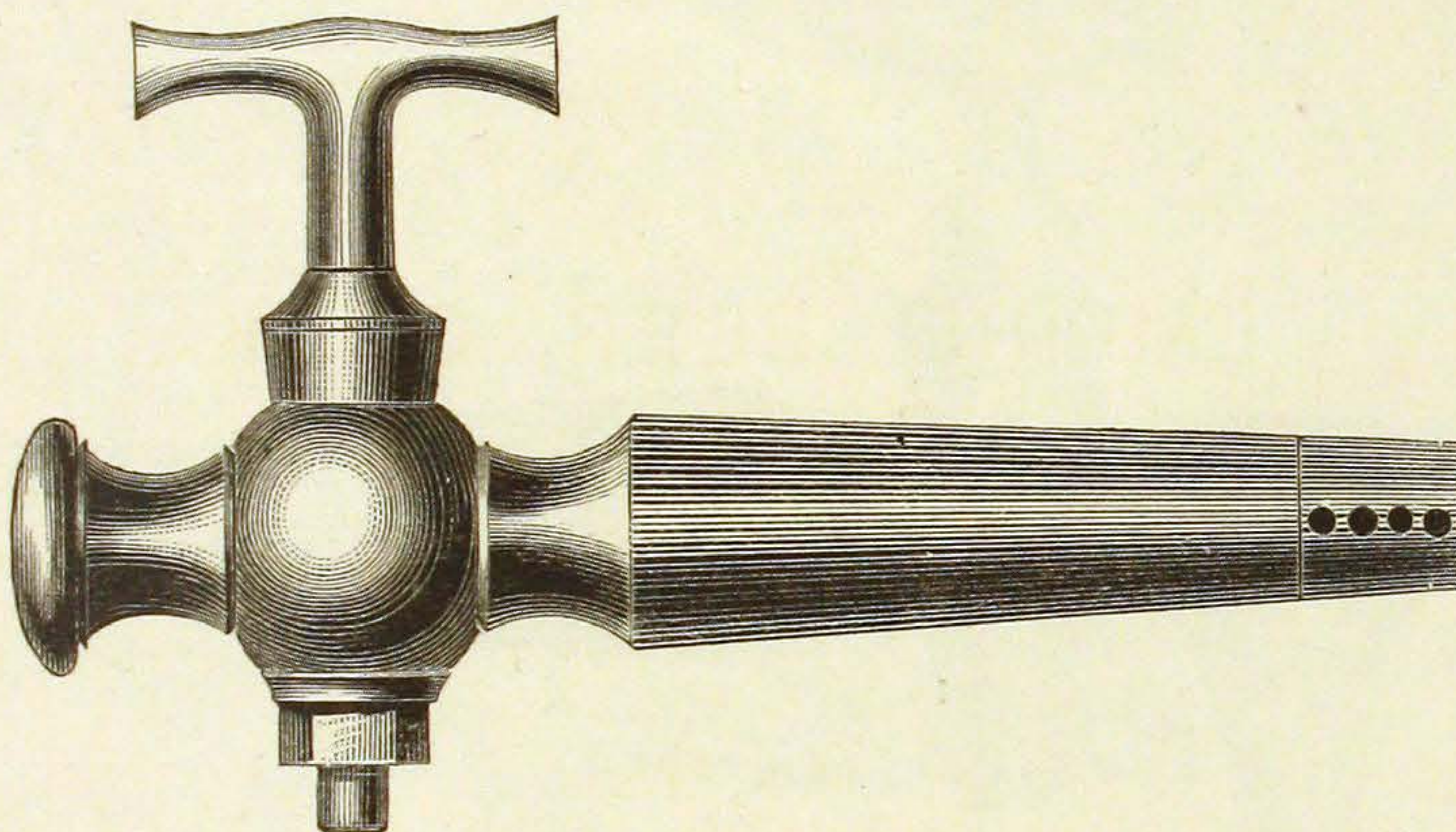
Fig. 712.





LAGER BEER COCK.  
"CALIFORNIA PATTERN."

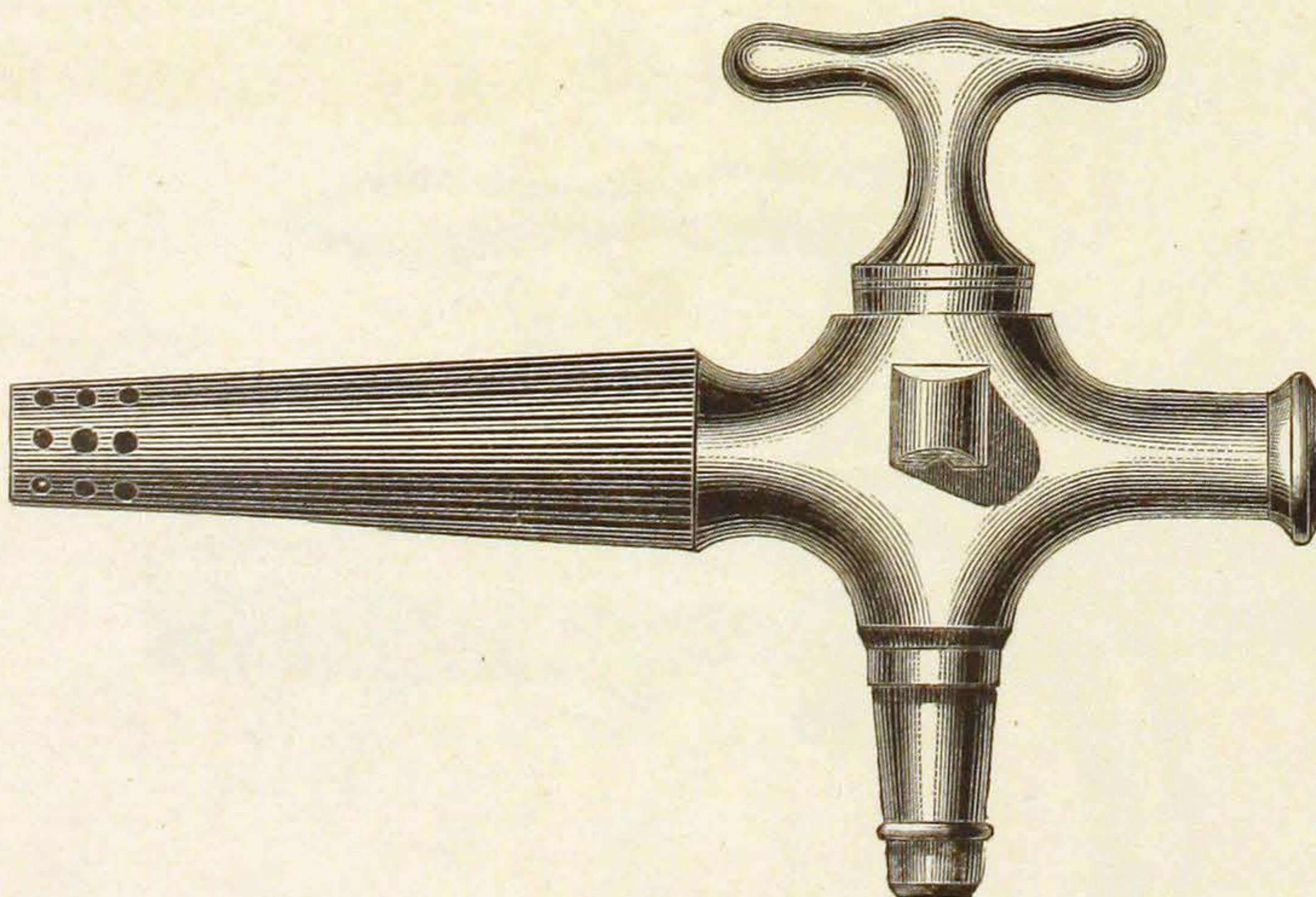
Fig. 713.



Finished.

SELF-VENTILATING LAGER BEER COCK.  
"GETTY'S PATENT."

Fig. 714.

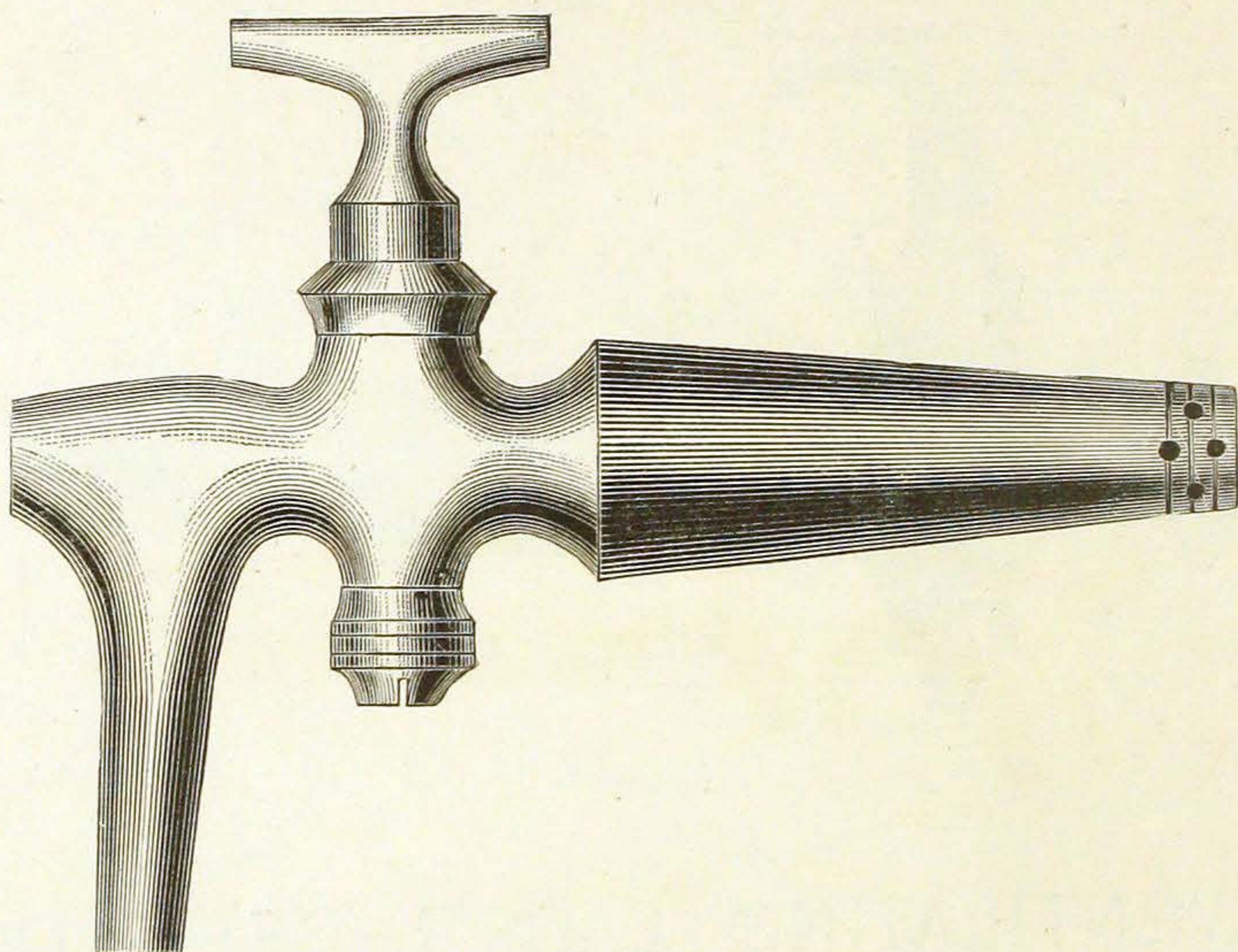


Finished.



## ALE COCK.

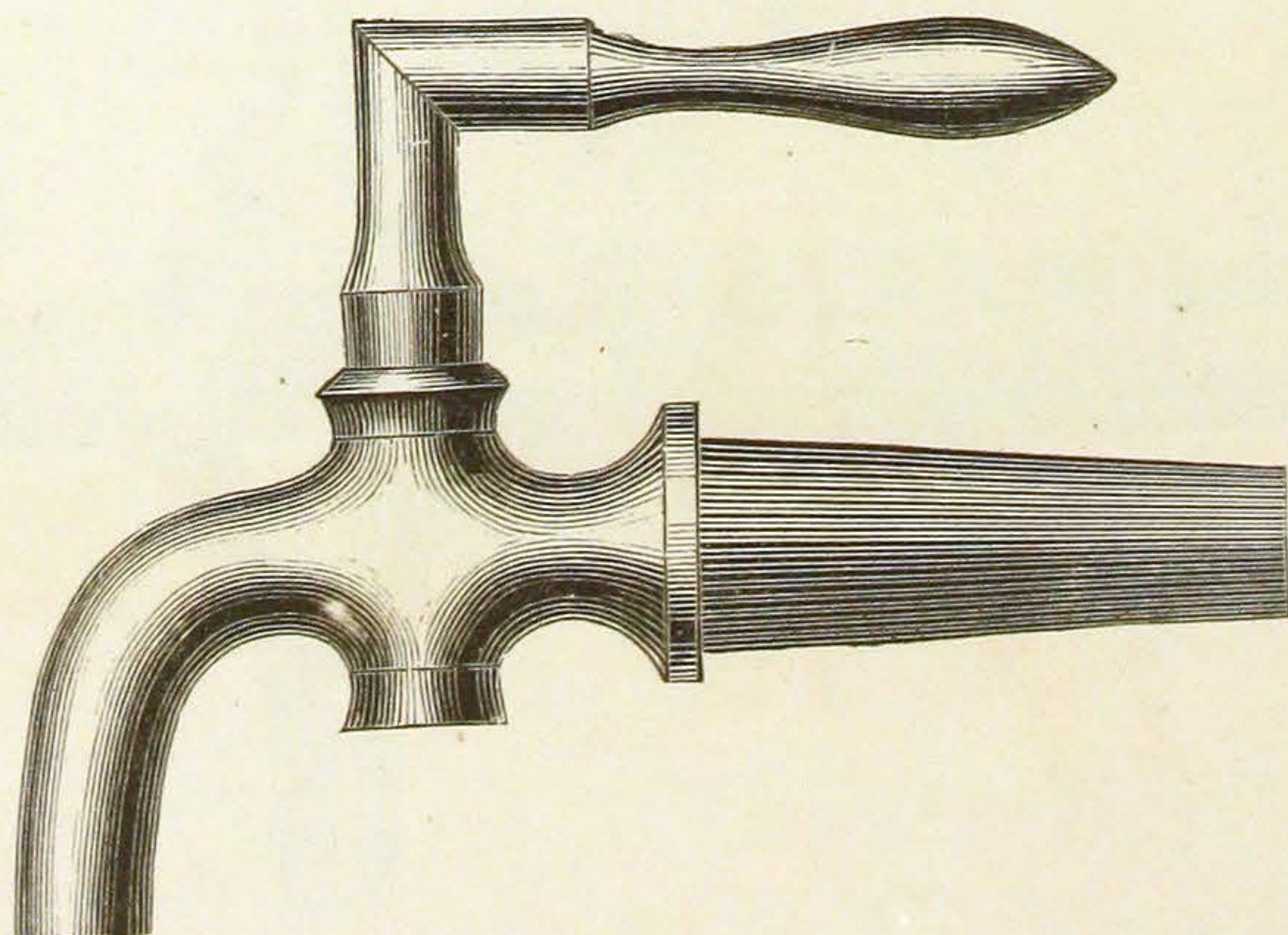
Fig. 715.



Finished.

## LEVER HANDLE COOLER COCK.

Fig. 716.



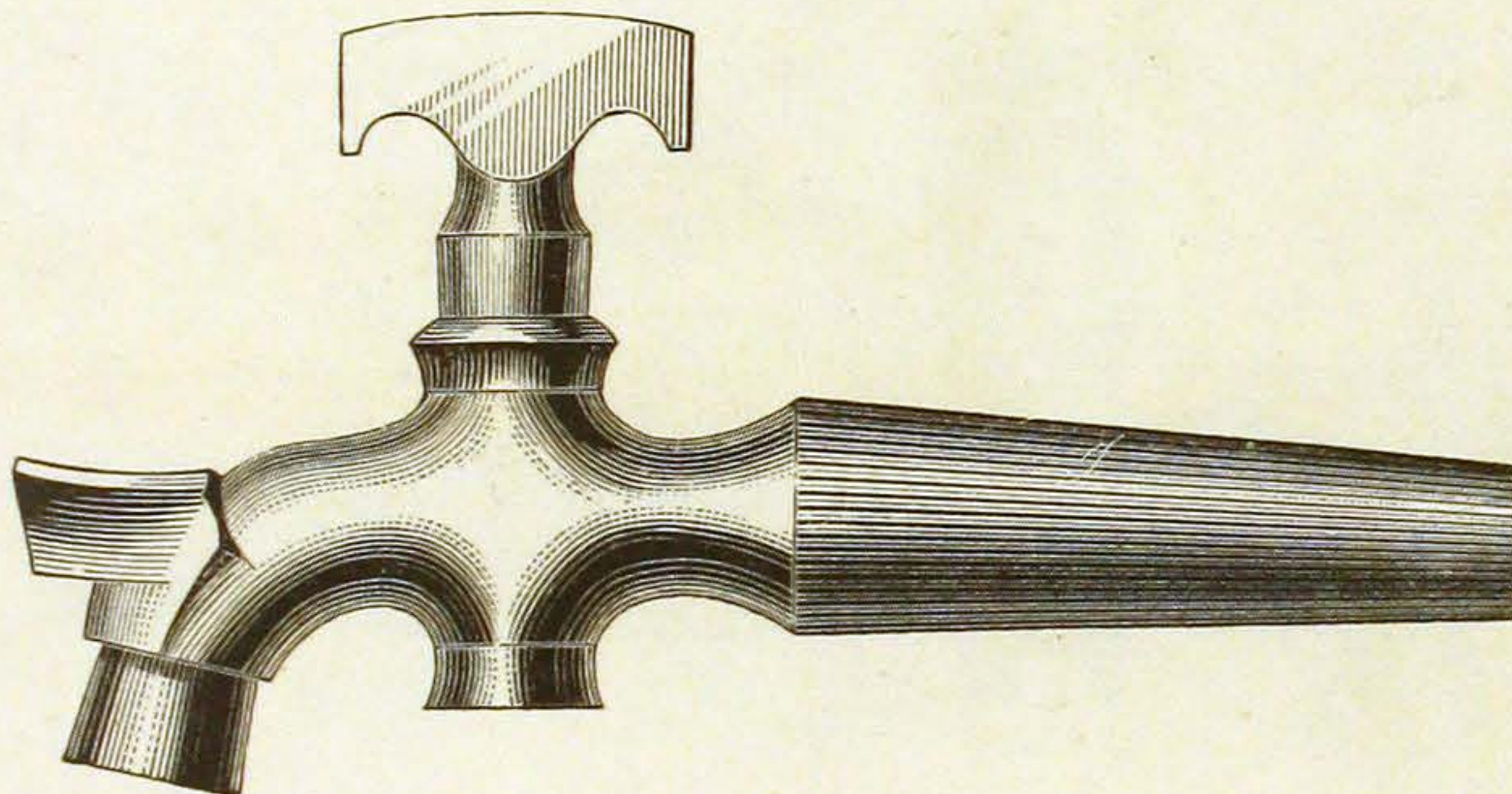
Finished and Plated.



## RACKING COCKS.

TO DRIVE.

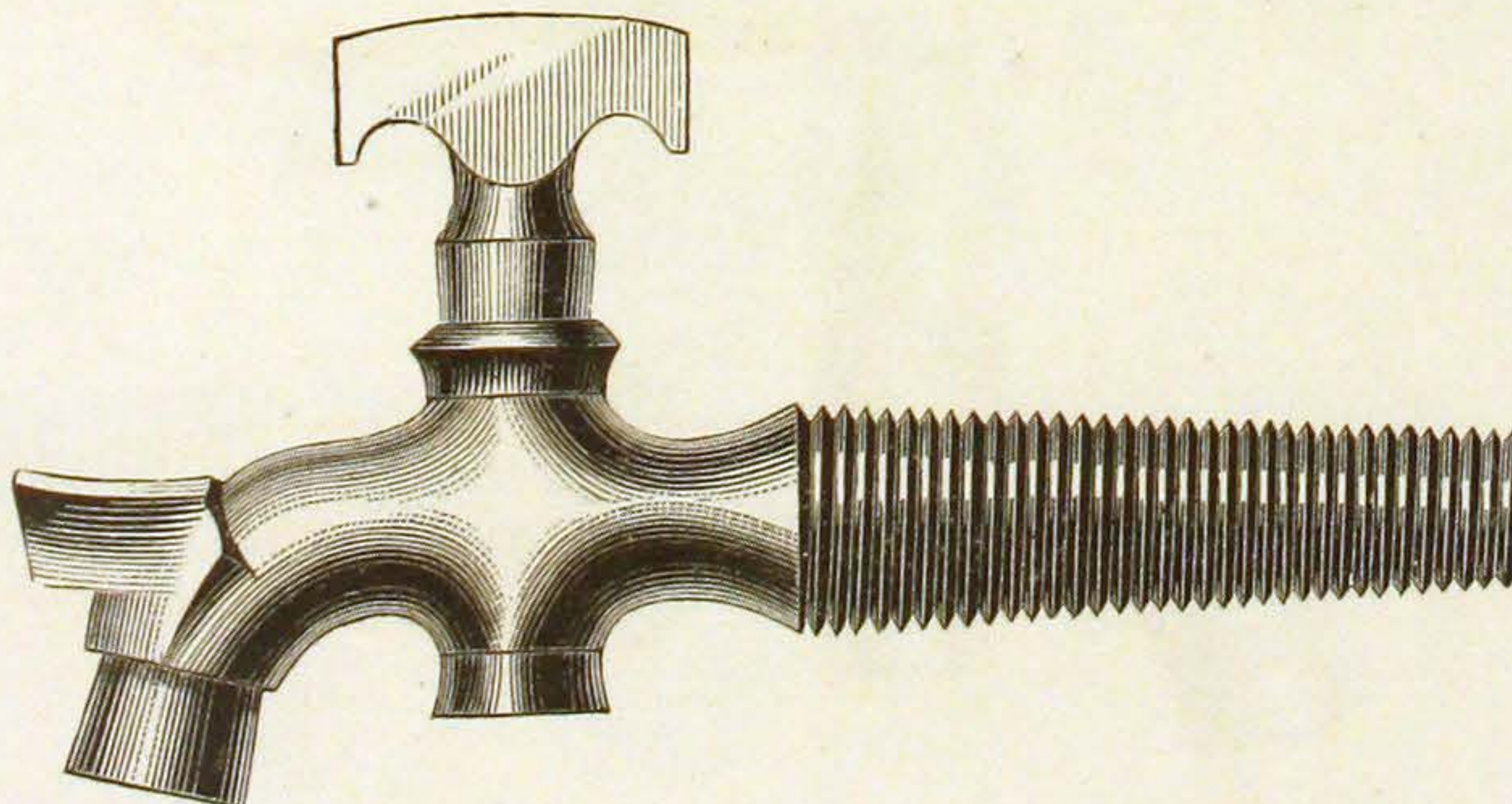
**Fig. 717.**



**Finished.**

TO SCREW.

**Fig. 718.**

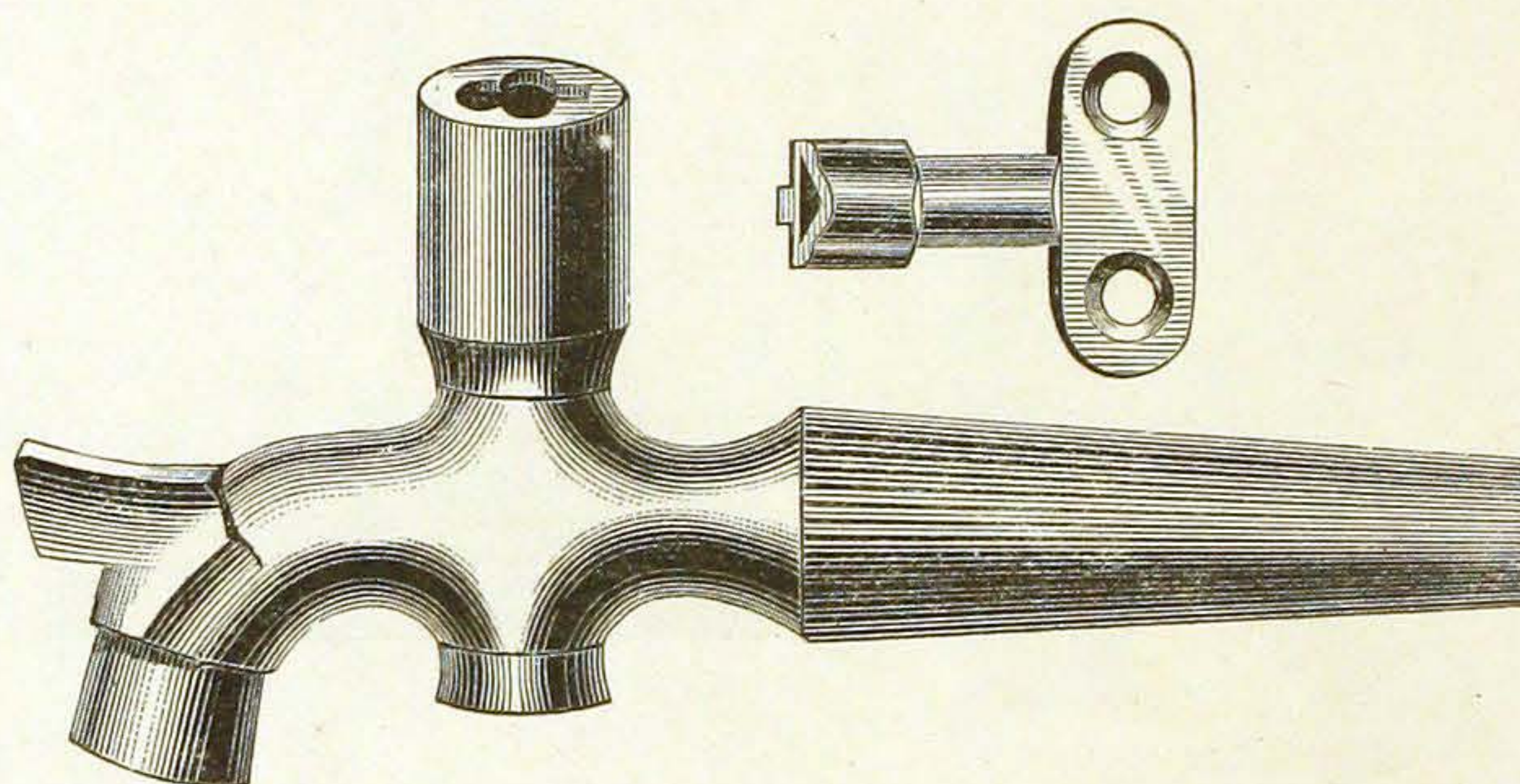


**Finished.**



RACKING COCKS, LOOSE KEY.  
TO DRIVE.

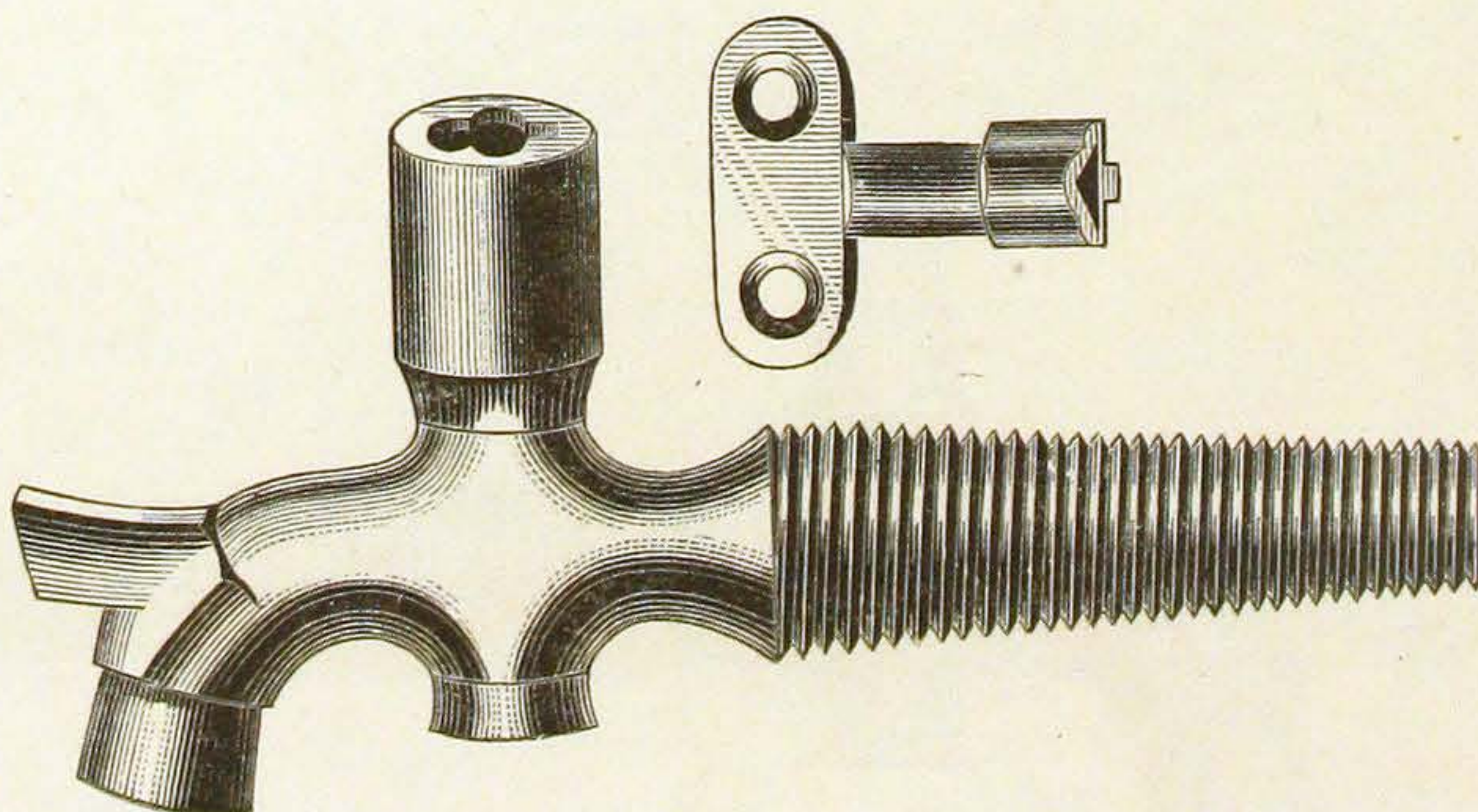
Fig. 719.



Finished.

TO SCREW.

Fig. 720.

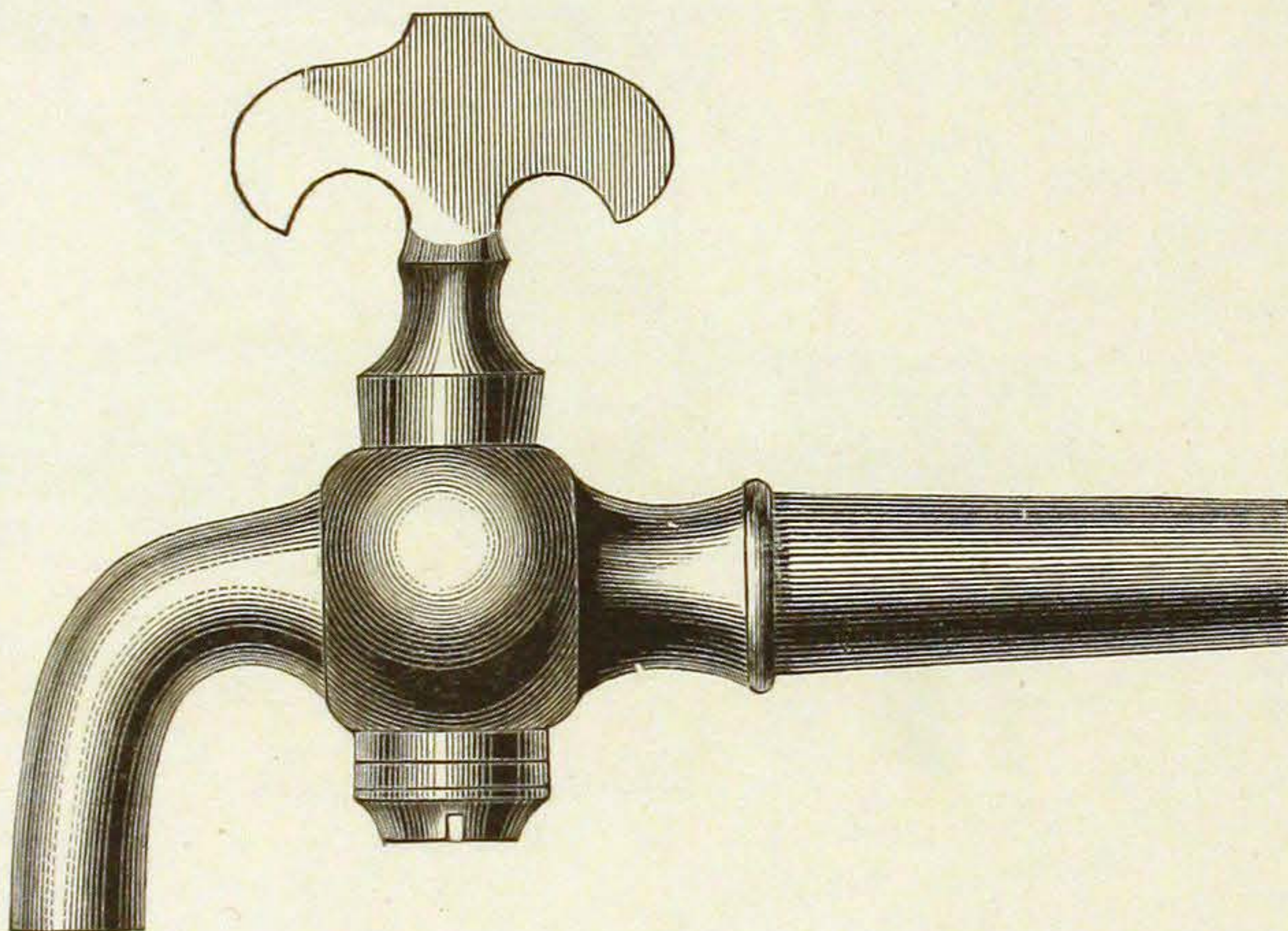


Finished.



GLOBE COCKS, T HANDLE.  
TINNED ENDS.

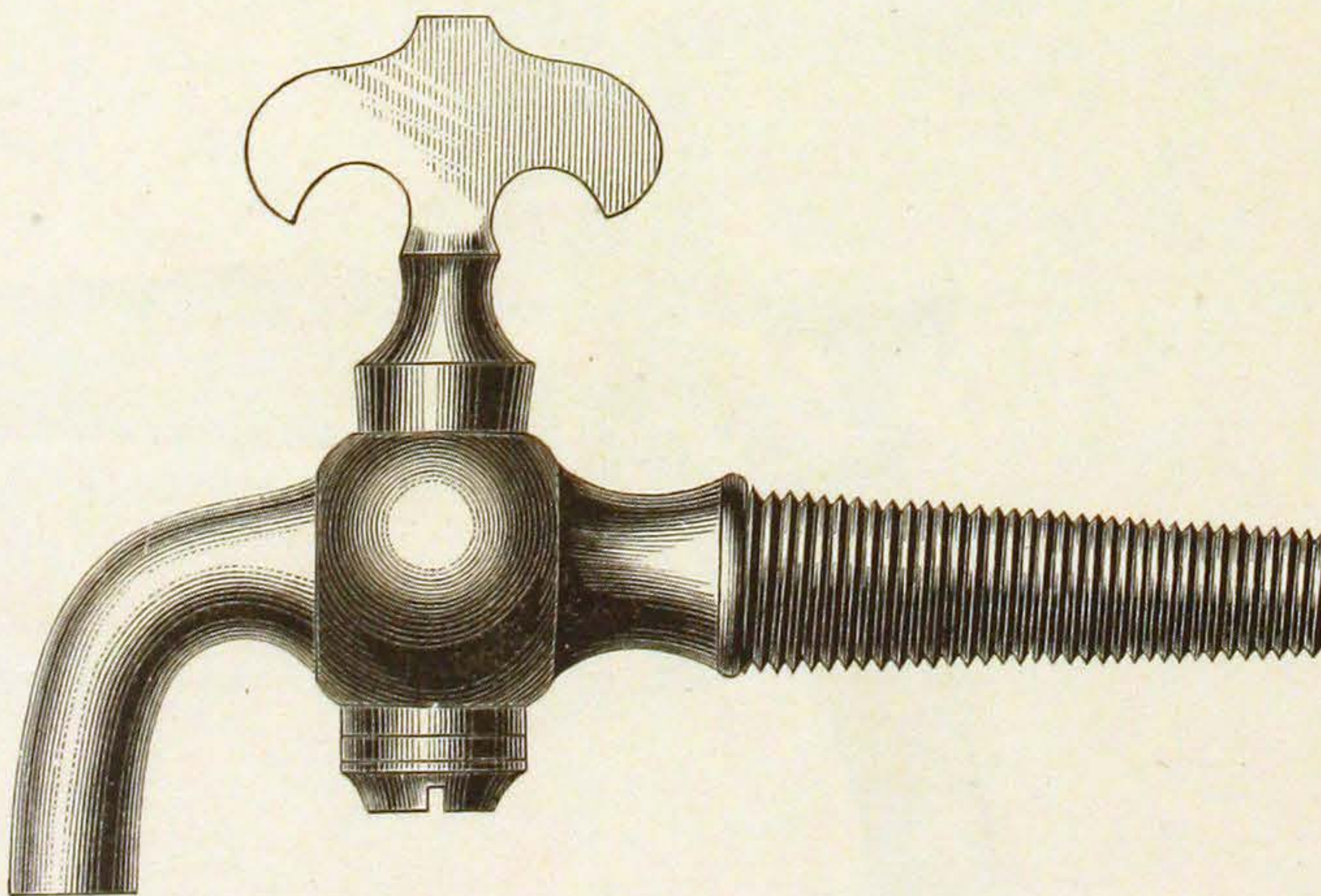
**Fig. 721.**



**Finished.**

TO SCREW.

**Fig. 722.**

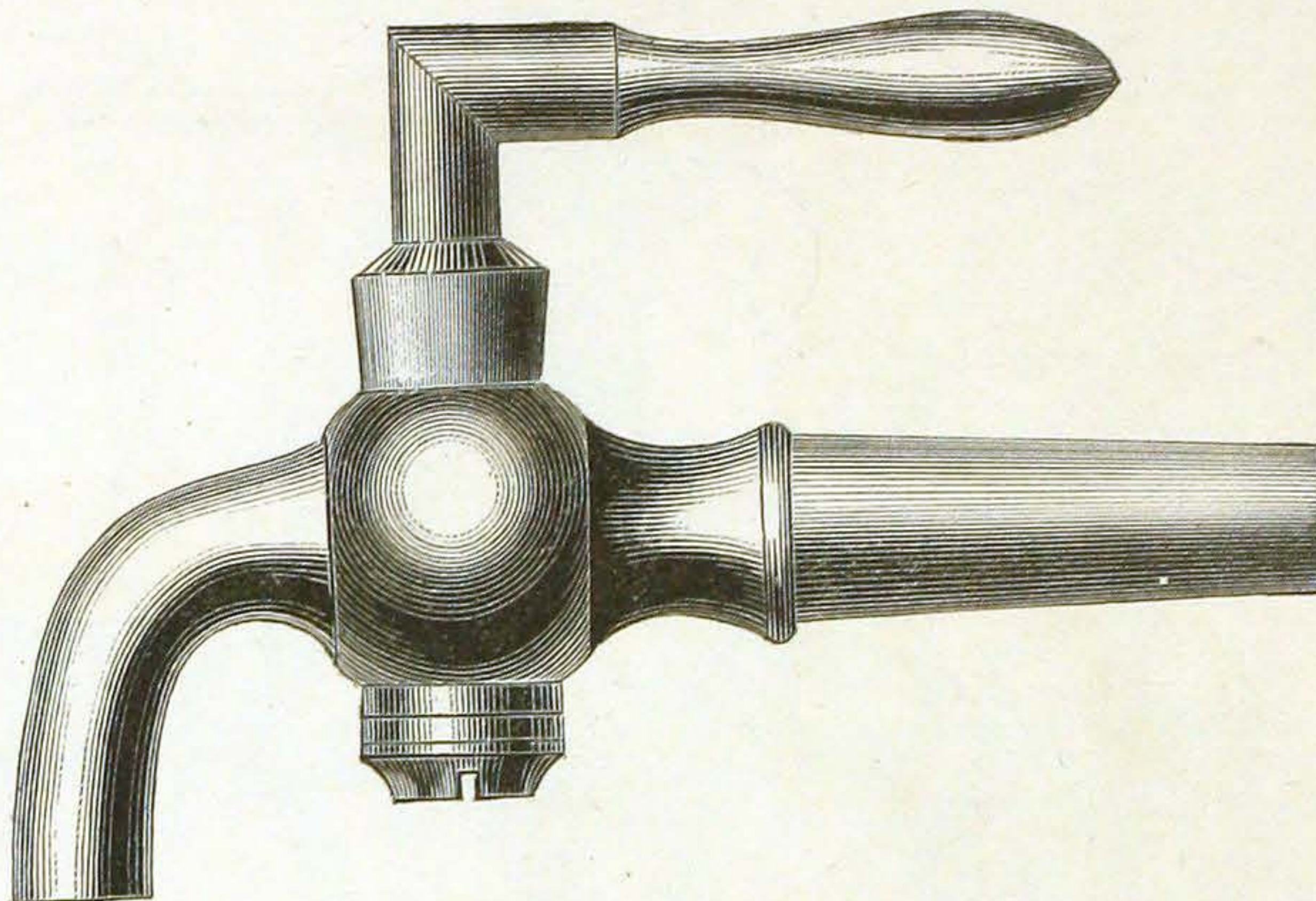


**Finished.**



GLOBE COCK, LEVER HANDLE.  
TINNED ENDS.

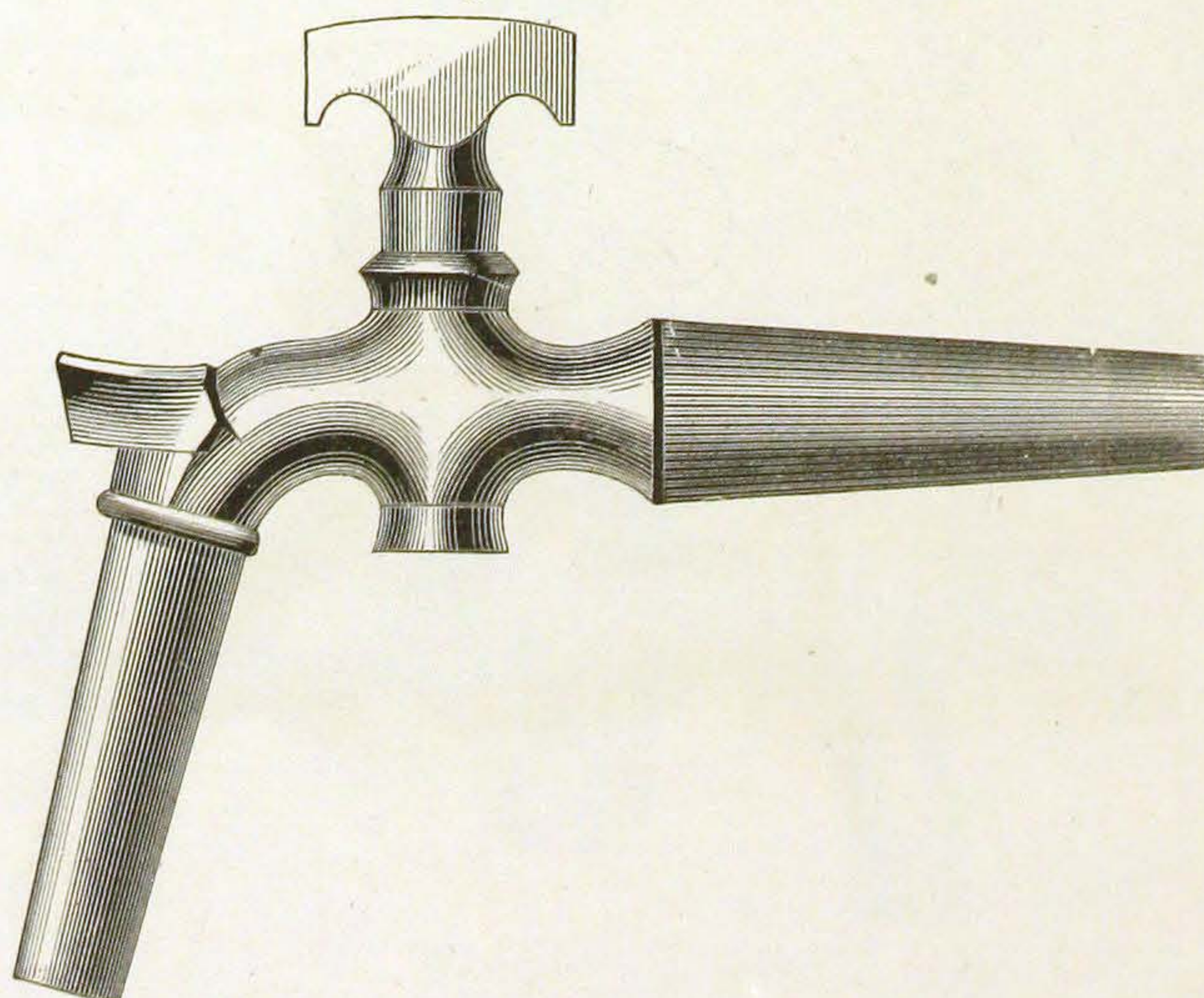
Fig. 723.



Finished.

BOTTLING COCK, ENGLISH PATTERN.  
TO DRIVE.

Fig. 724.

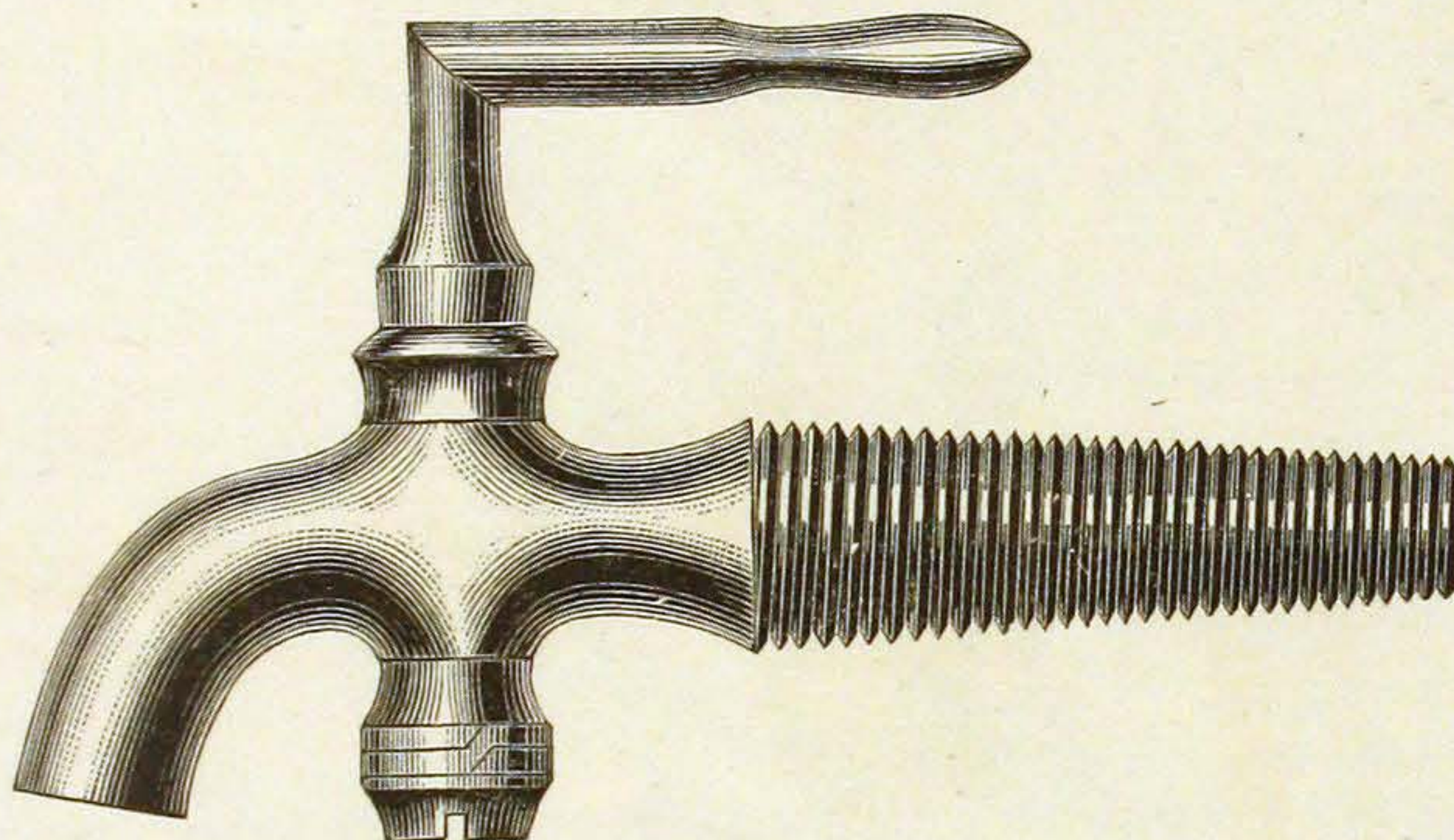


Finished.



KEROSENE COCK.  
TO SCREW.

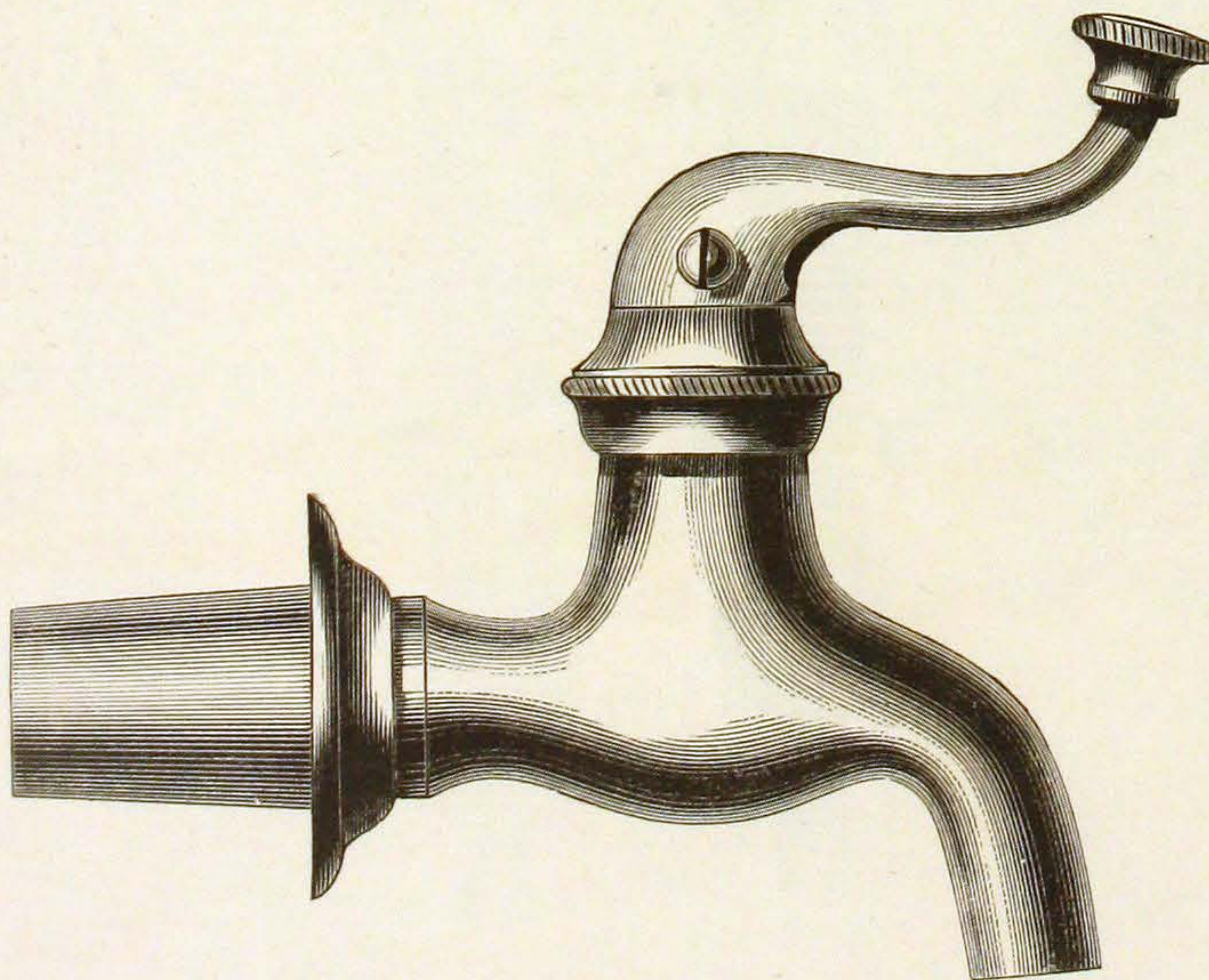
Fig. 725.



Rough and Finished.

SELF-CLOSING TELEGRAPH BIBB.

Fig. 726.



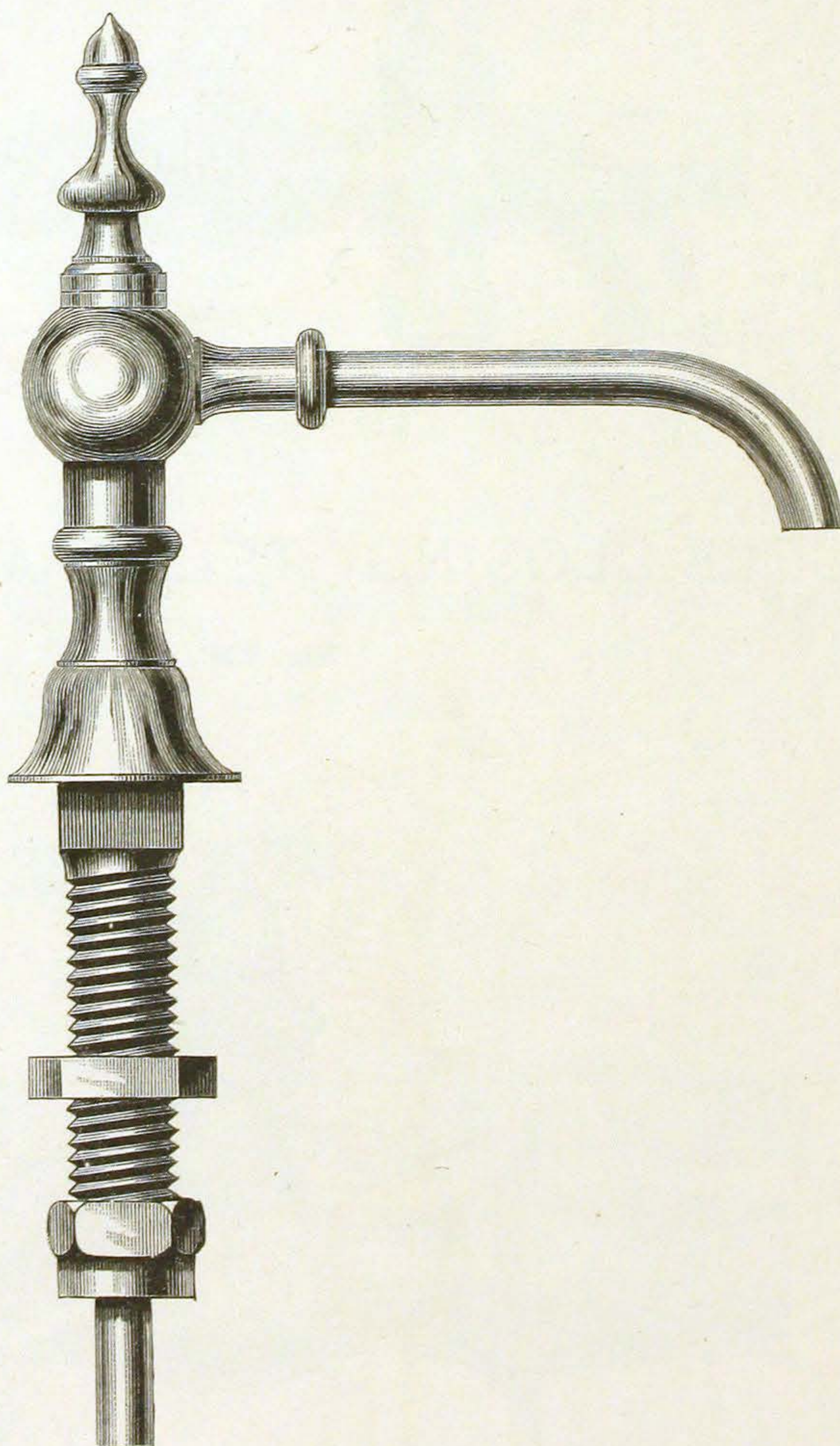
Finished and Plated.



## NO. 1, PLUG BASIN COCK.

GROUND KEY.

Fig. 727.



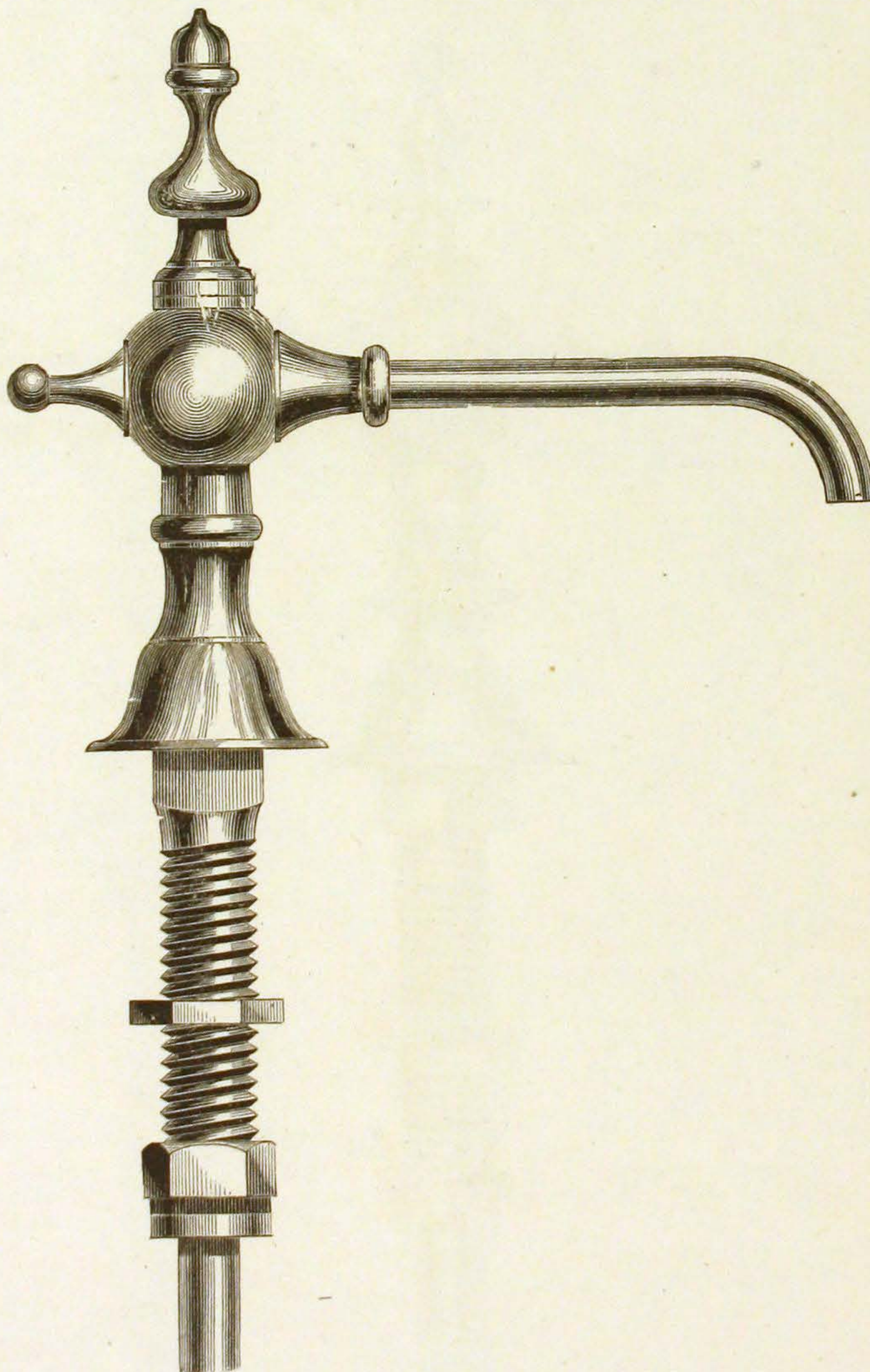
Finished and Plated.



NO. 2, PLUG BASIN COCK.

GROUND KEY.

Fig. 728.



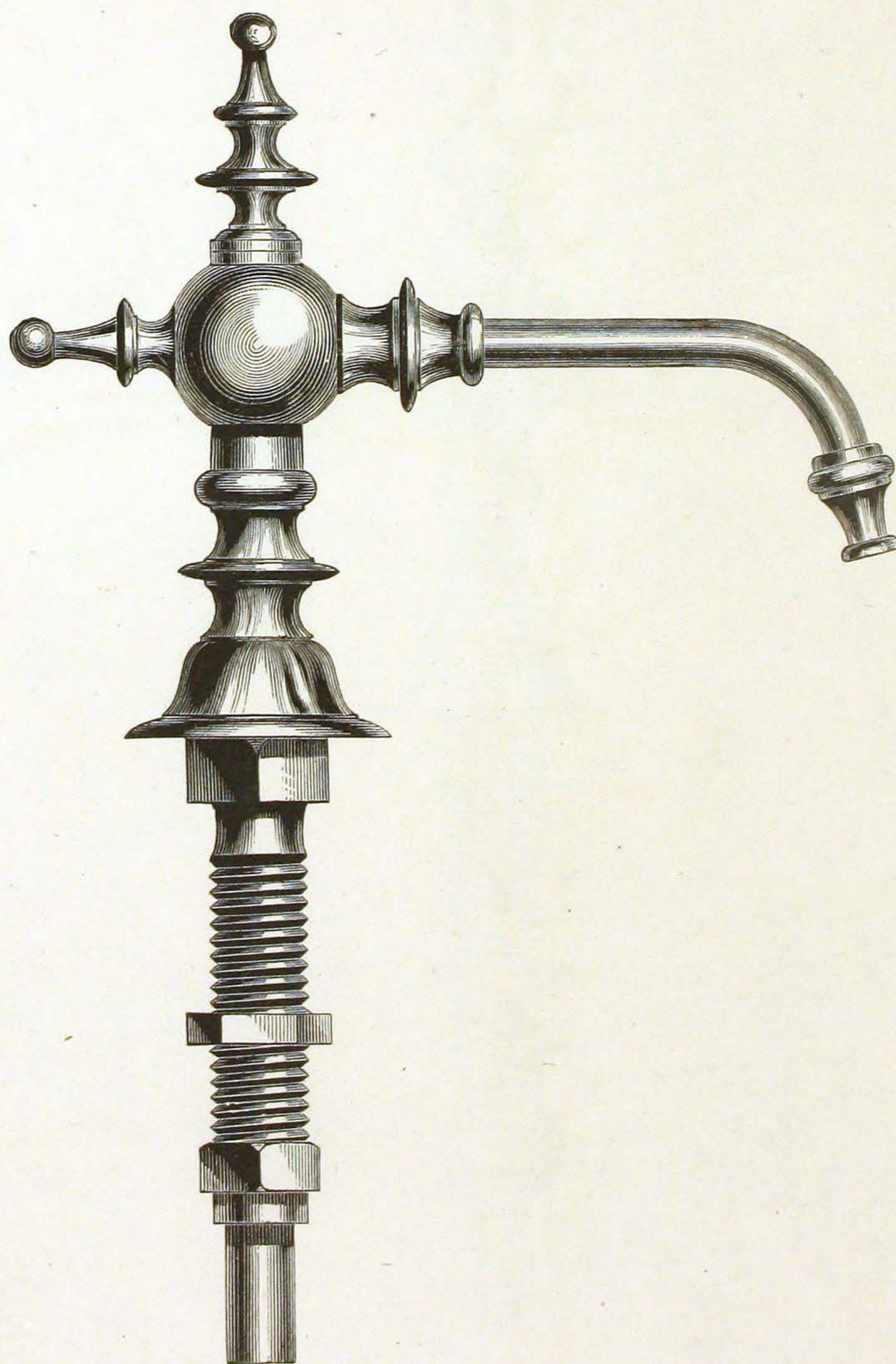
Finished and Plated.



## NO. 3, PLUG BASIN COCK.

GROUND KEY.

Fig. 729.

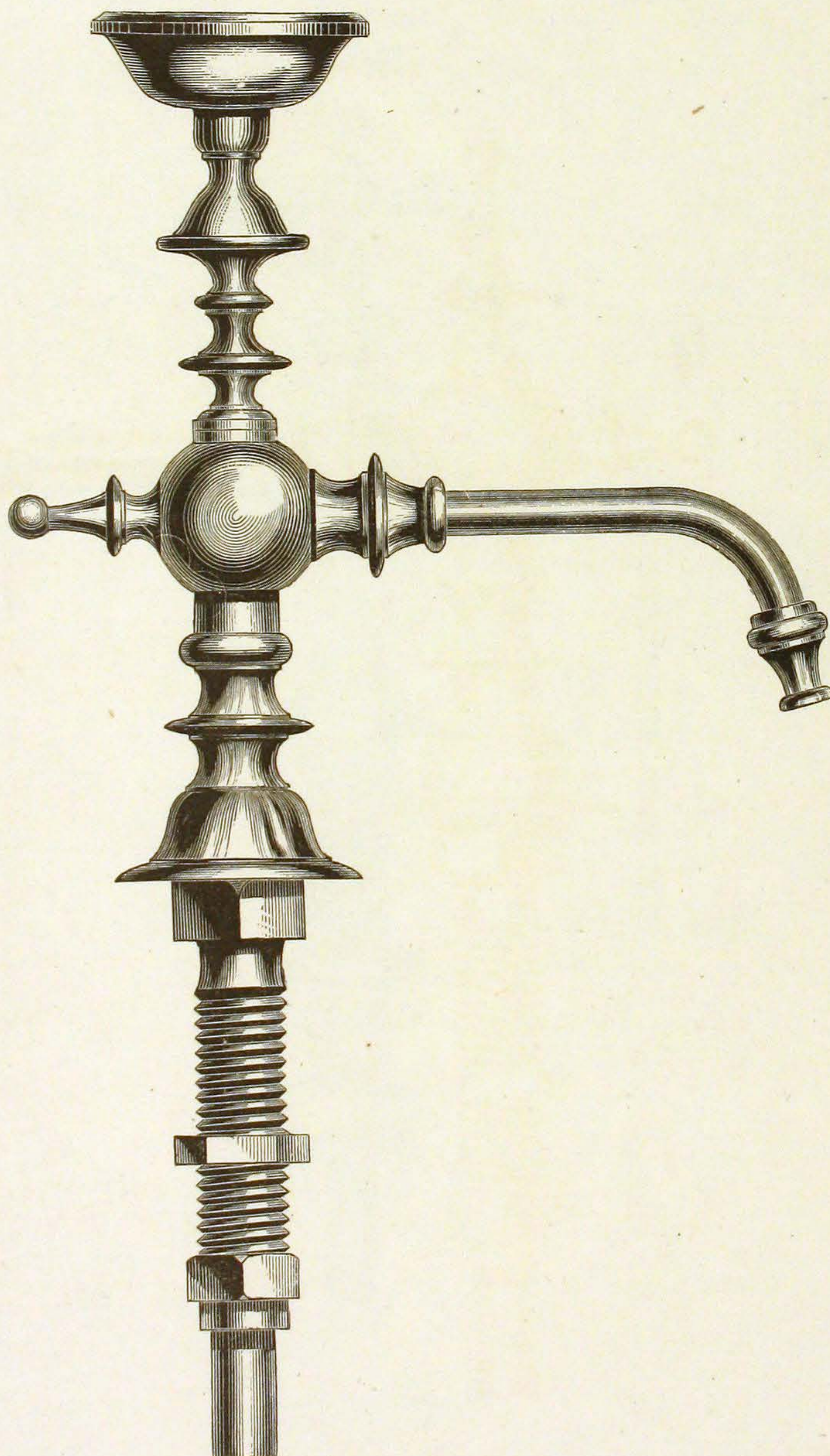


Finished and Plated.



NO. 4, PLUG BASIN COCK.  
WITH JEWEL HOLDER.

Fig. 730.

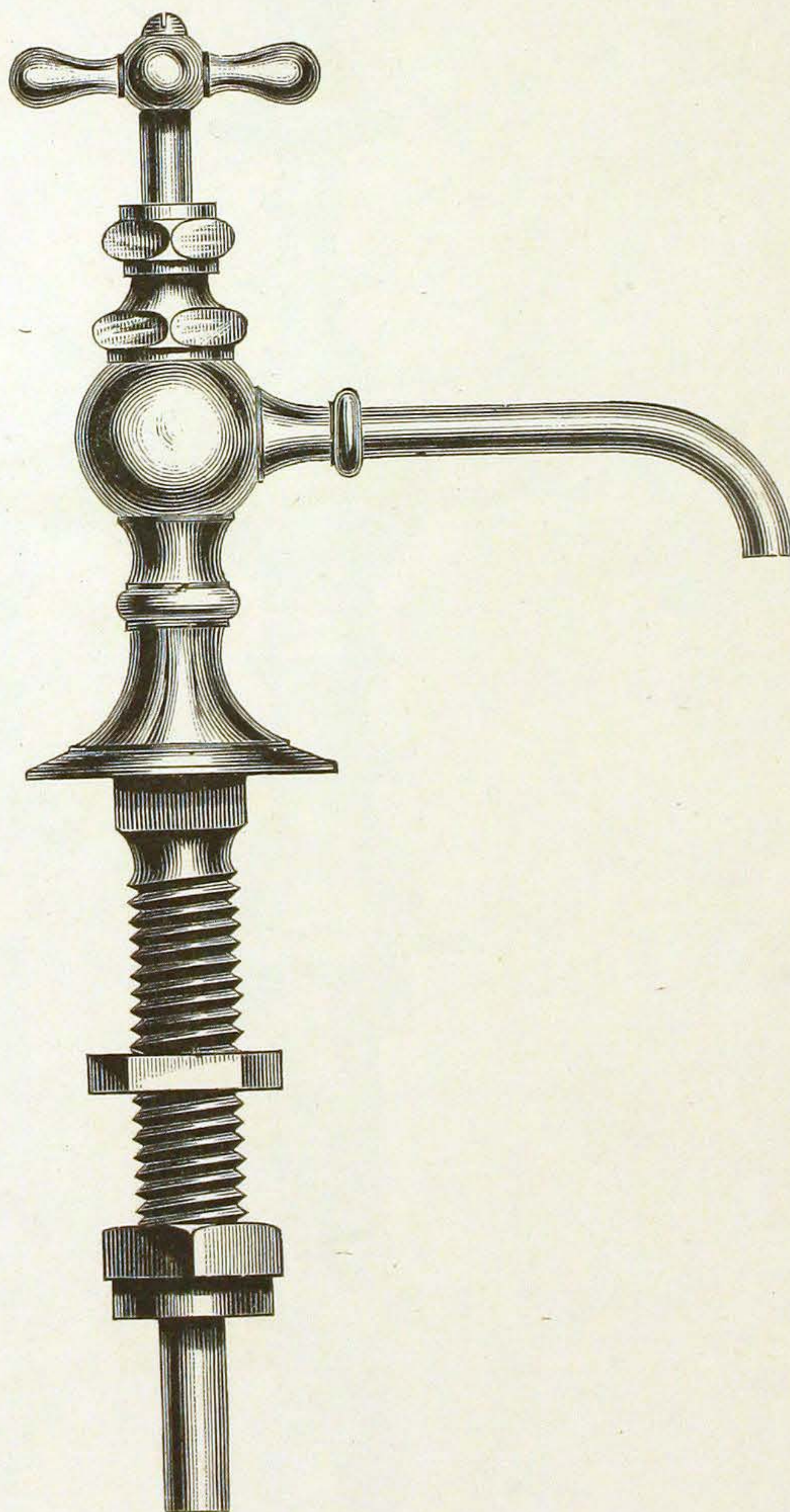


Finished and Plated.



## NO. 5, COMPRESSION BASIN COCK.

Fig. 731.

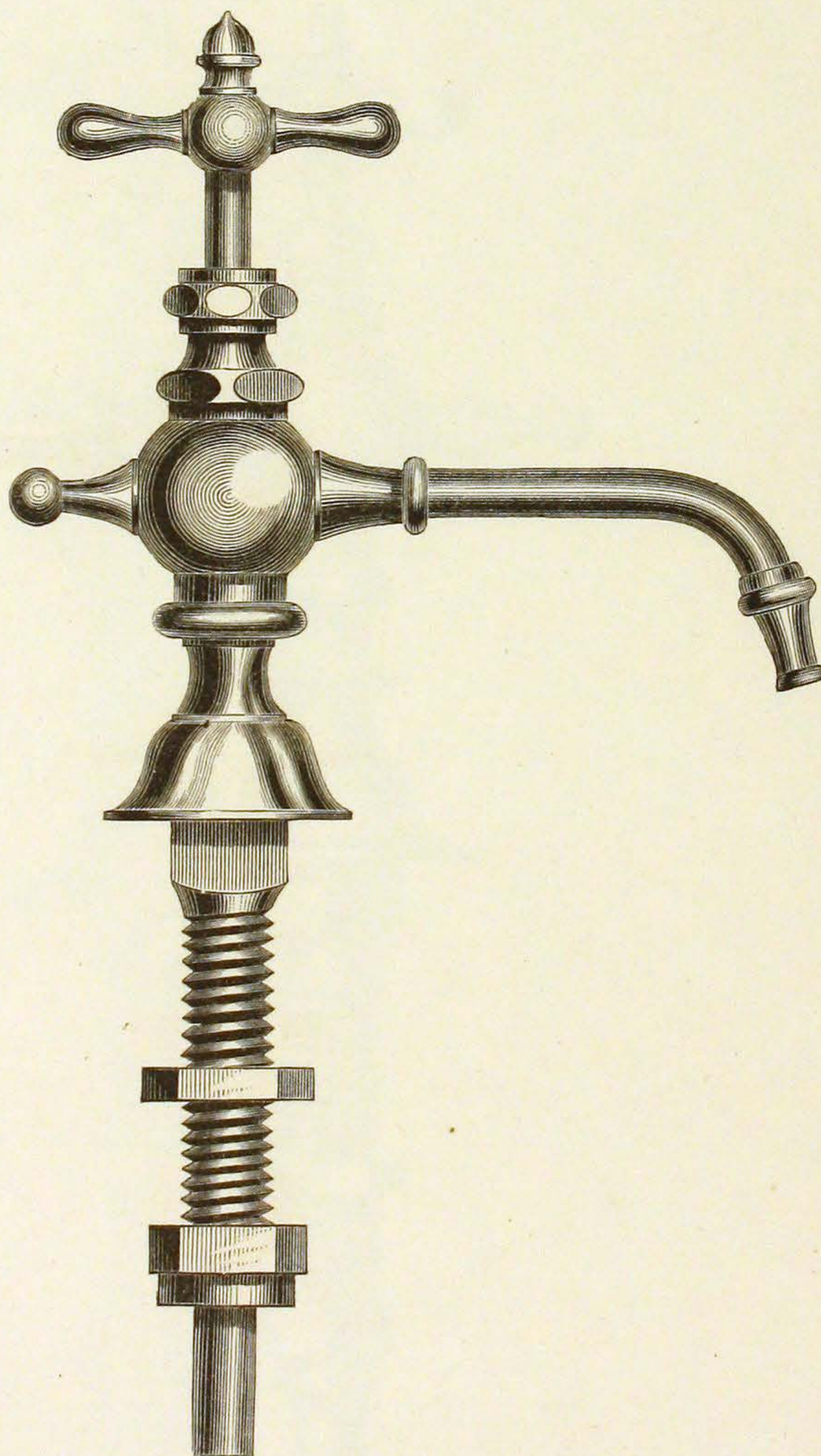


Finished and Plated.



NO. 6, COMPRESSION BASIN COCK.

Fig. 732.

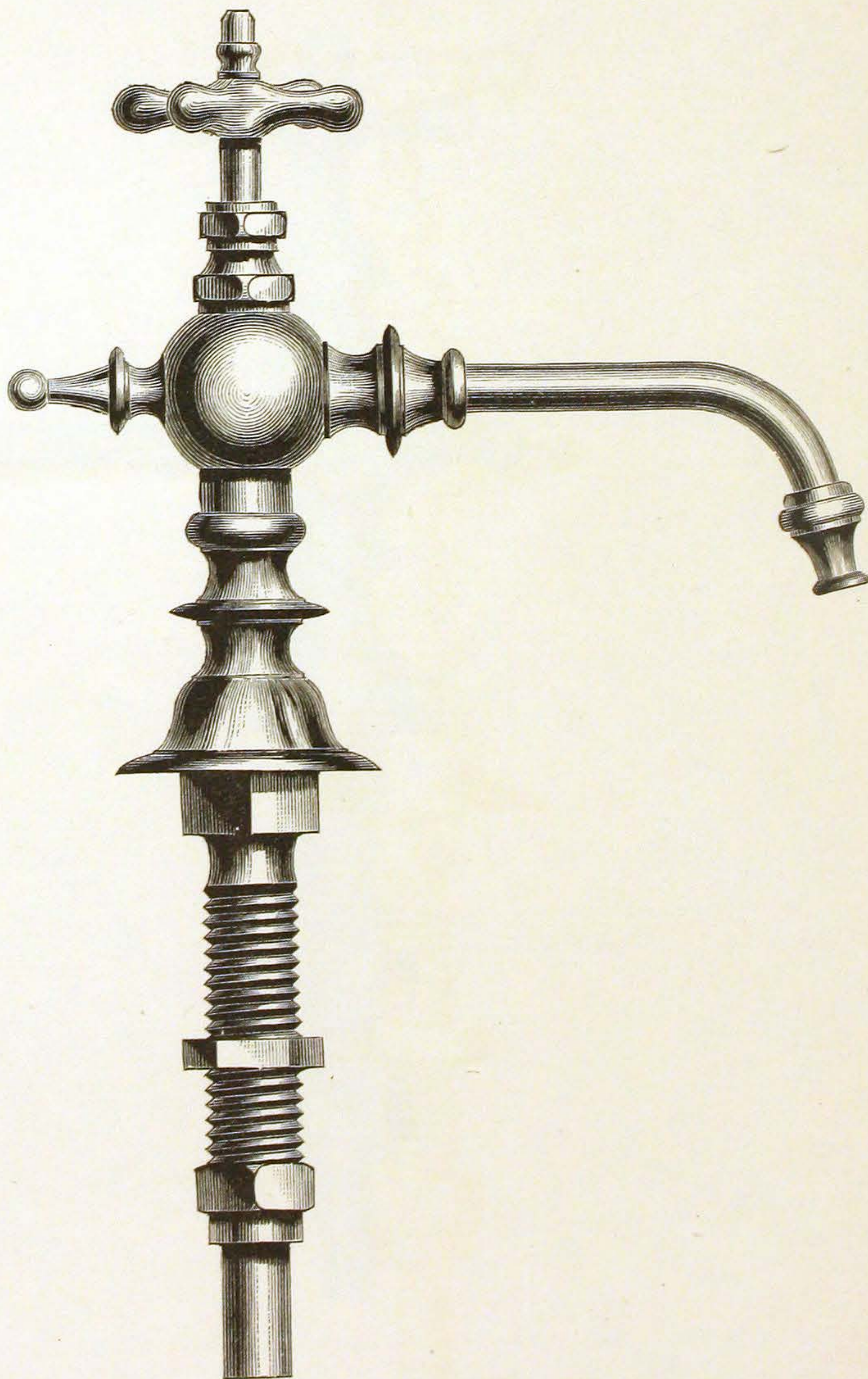


Finished and Plated.



NO. 7, COMPRESSION BASIN COCK.  
FOUR ARM HANDLE.

Fig. 732 $\frac{1}{2}$ .

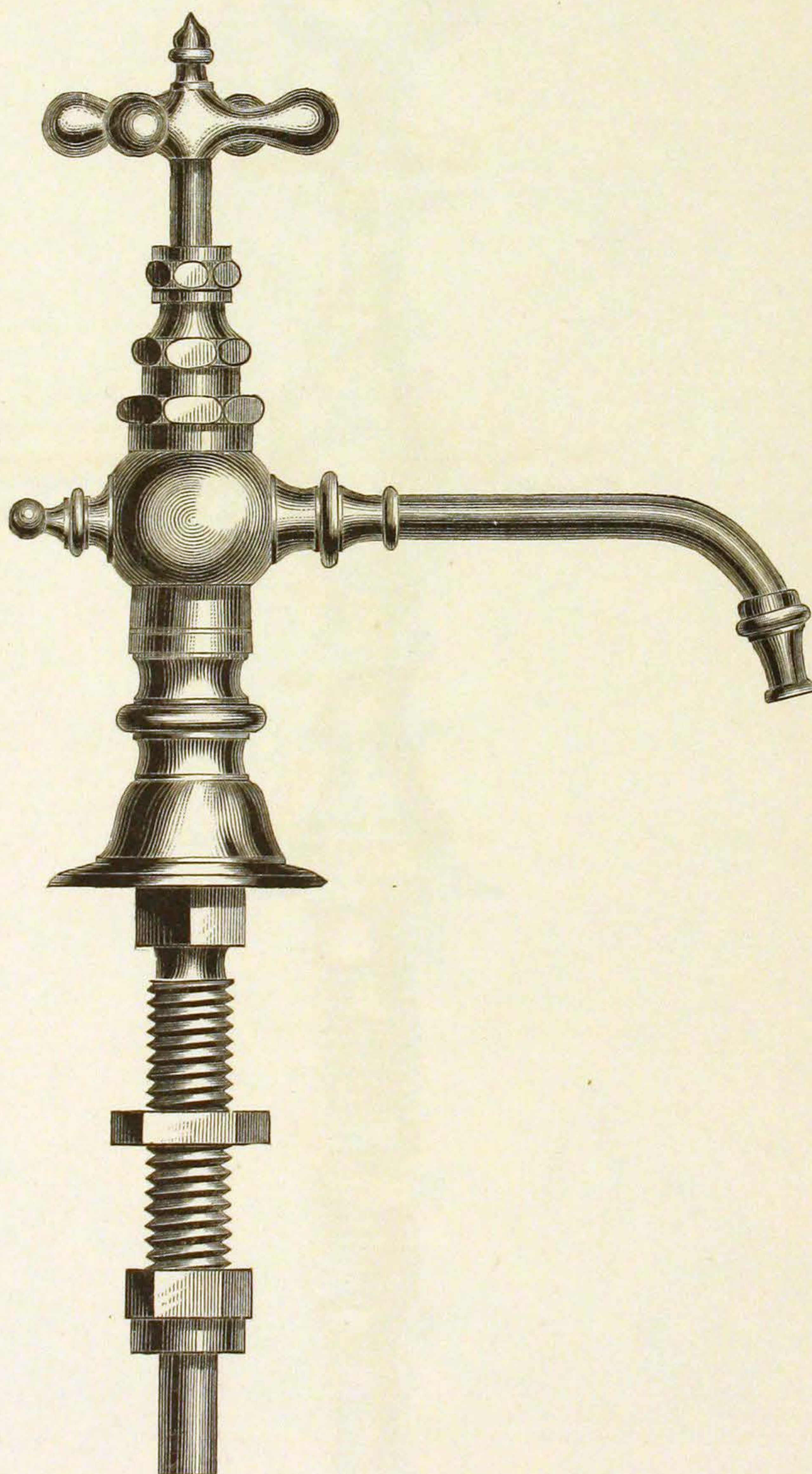


Finished and Plated.



NO. 8, COMPRESSION SWING BASIN COCK.  
FOUR ARM HANDLE.

Fig. 733.

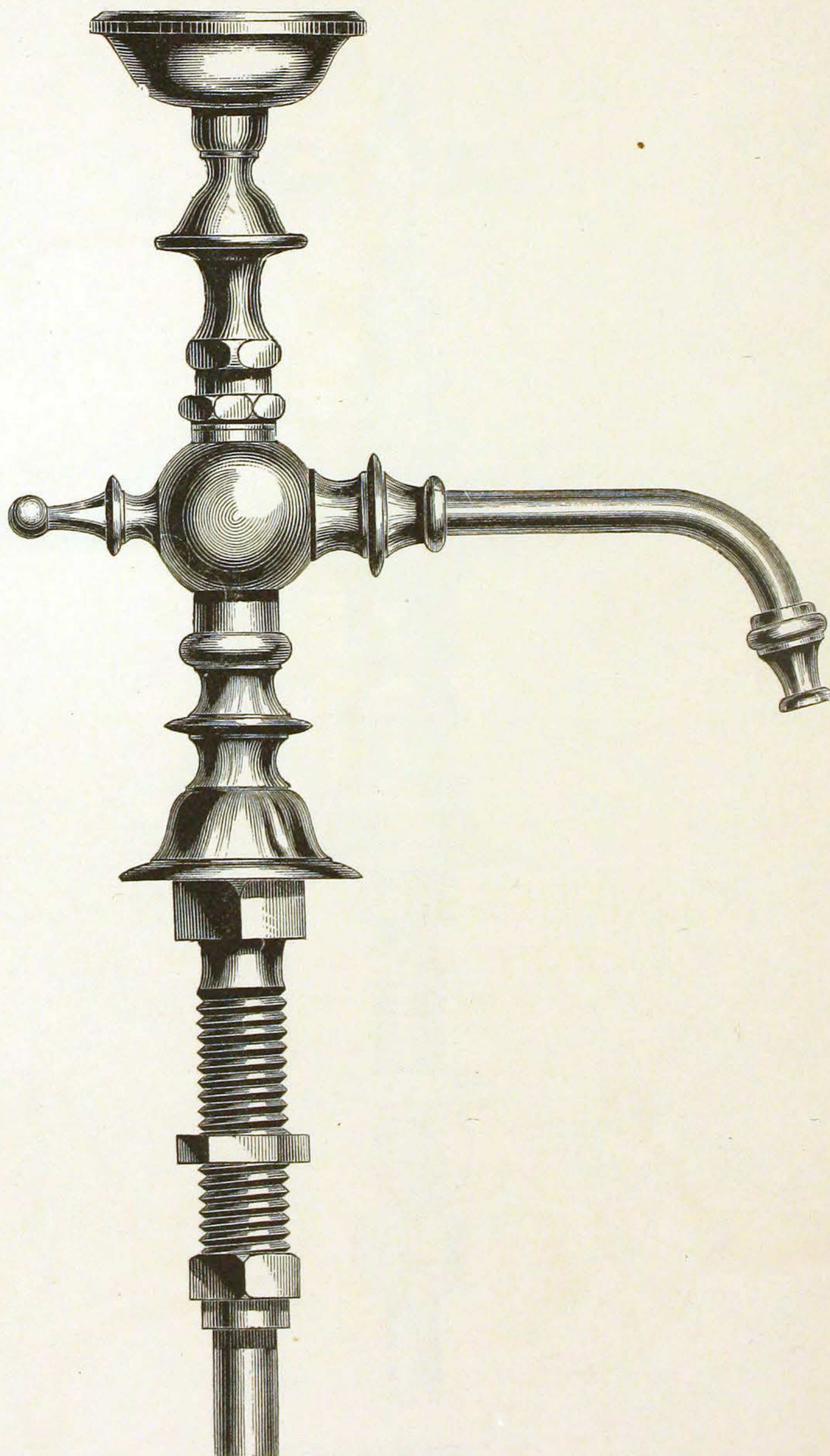


Finished and Plated.



NO. 9, COMPRESSION SWING BASIN COCK.  
WITH JEWEL HOLDER.

Fig. 734.

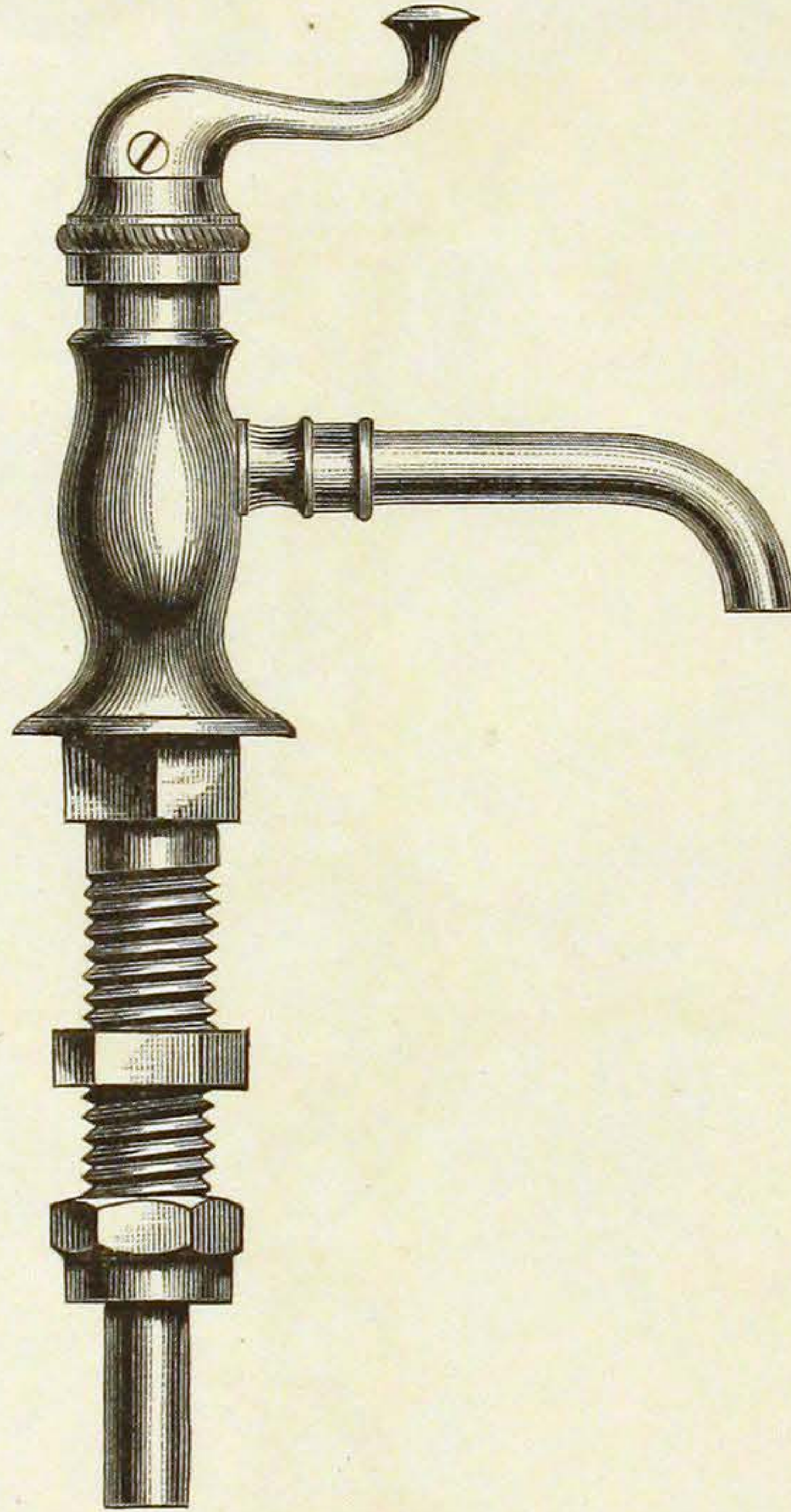


Finished and Plated.



SELF-CLOSING BASIN COCK.  
TELEGRAPH PATTERN.

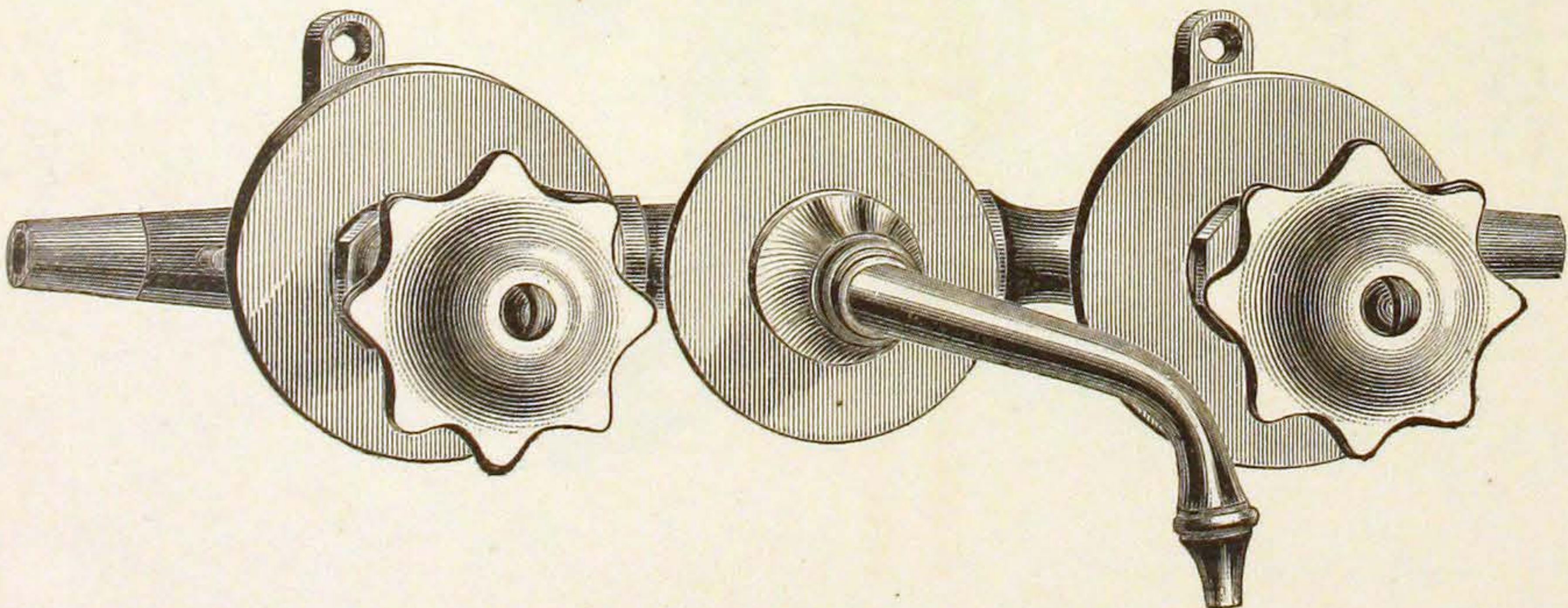
Fig. 735.



Finished and Plated.

COMPRESSION BASIN COCK.  
FOR BACK OF SLAB.  
HOT AND COLD.

Fig. 736.

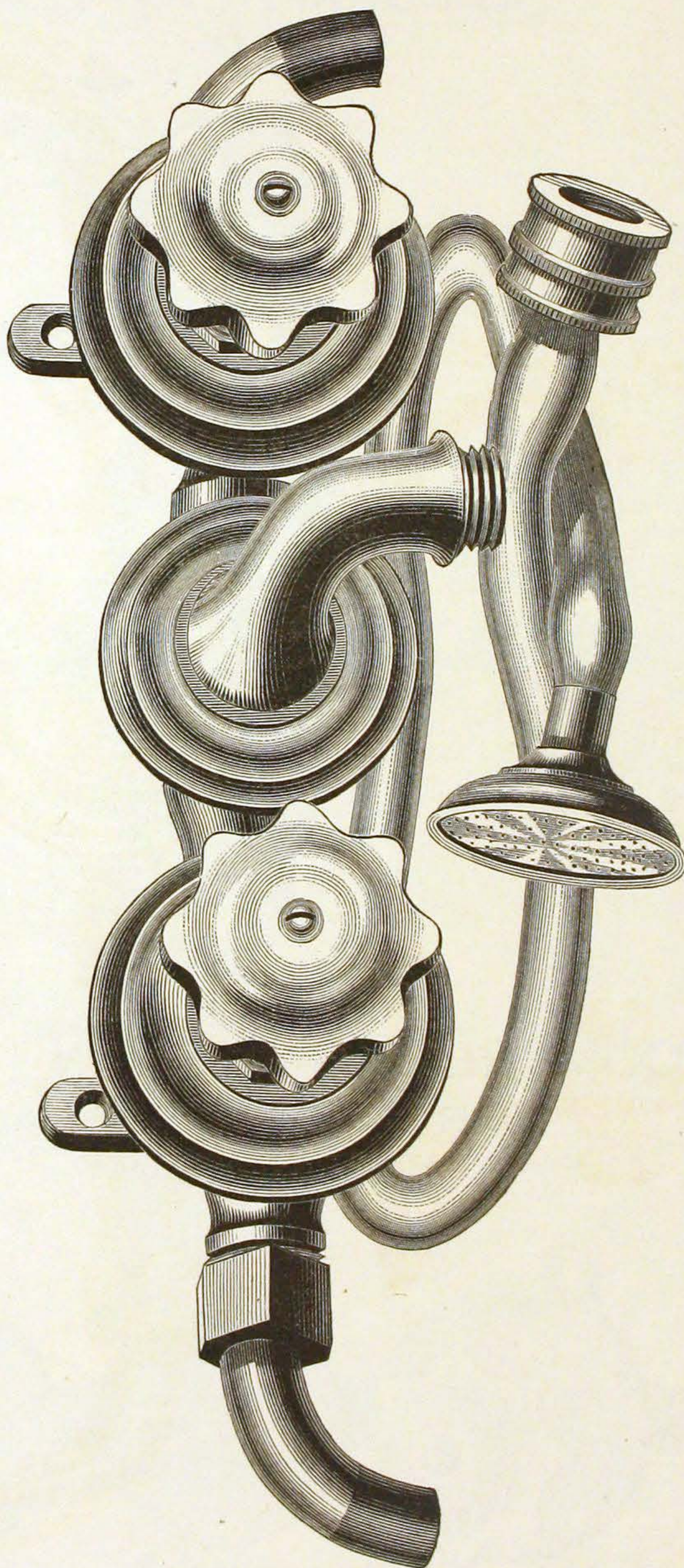


Finished and Plated.



COMPRESSION DOUBLE BATH COCK.  
COMPLETE WITH RUBBER TUBE AND SPRINKLER.

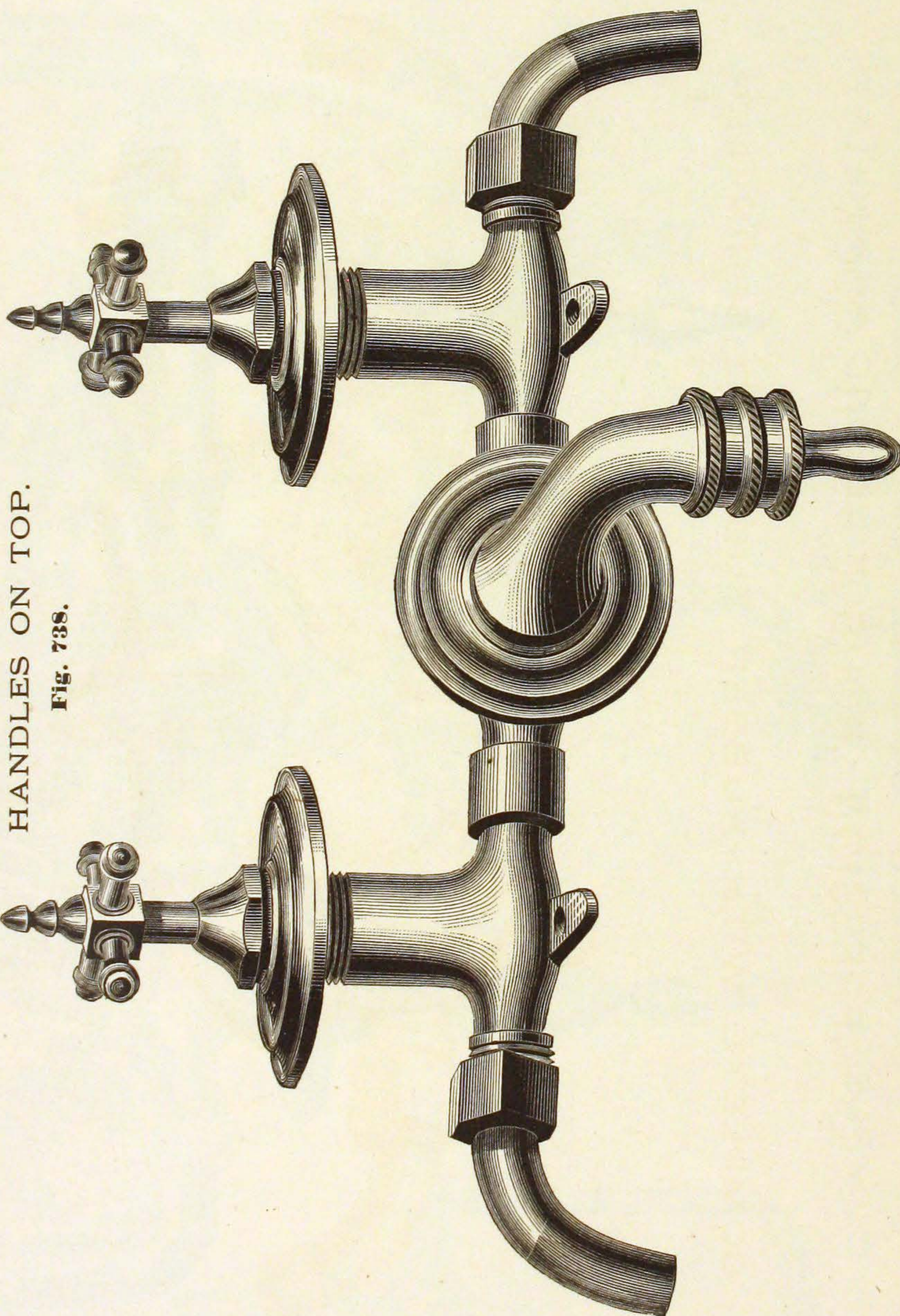
Fig. 737.



Finished and Plated.



COMPRESSION DOUBLE BATH COCK.  
COMPLETE, WITH RUBBER TUBE AND SPRINKLER.



HANDLES ON TOP.

Fig. 738.

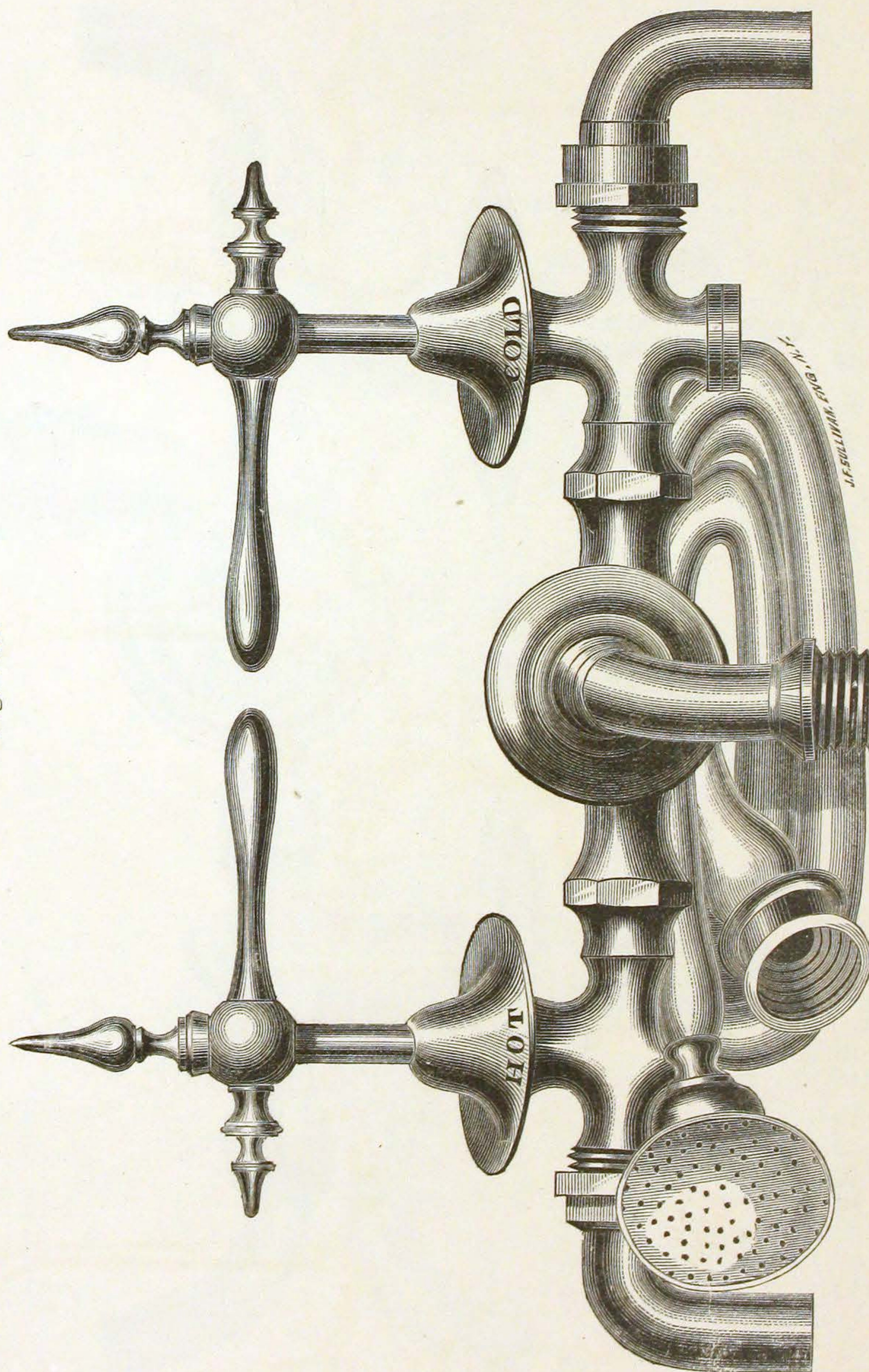
Finished and Plated.



FINISHED DOUBLE BATH COCK.  
COMPLETE, WITH RUBBER TUBE AND SPRINKLER.

GROUND KEY.

Fig. 739.

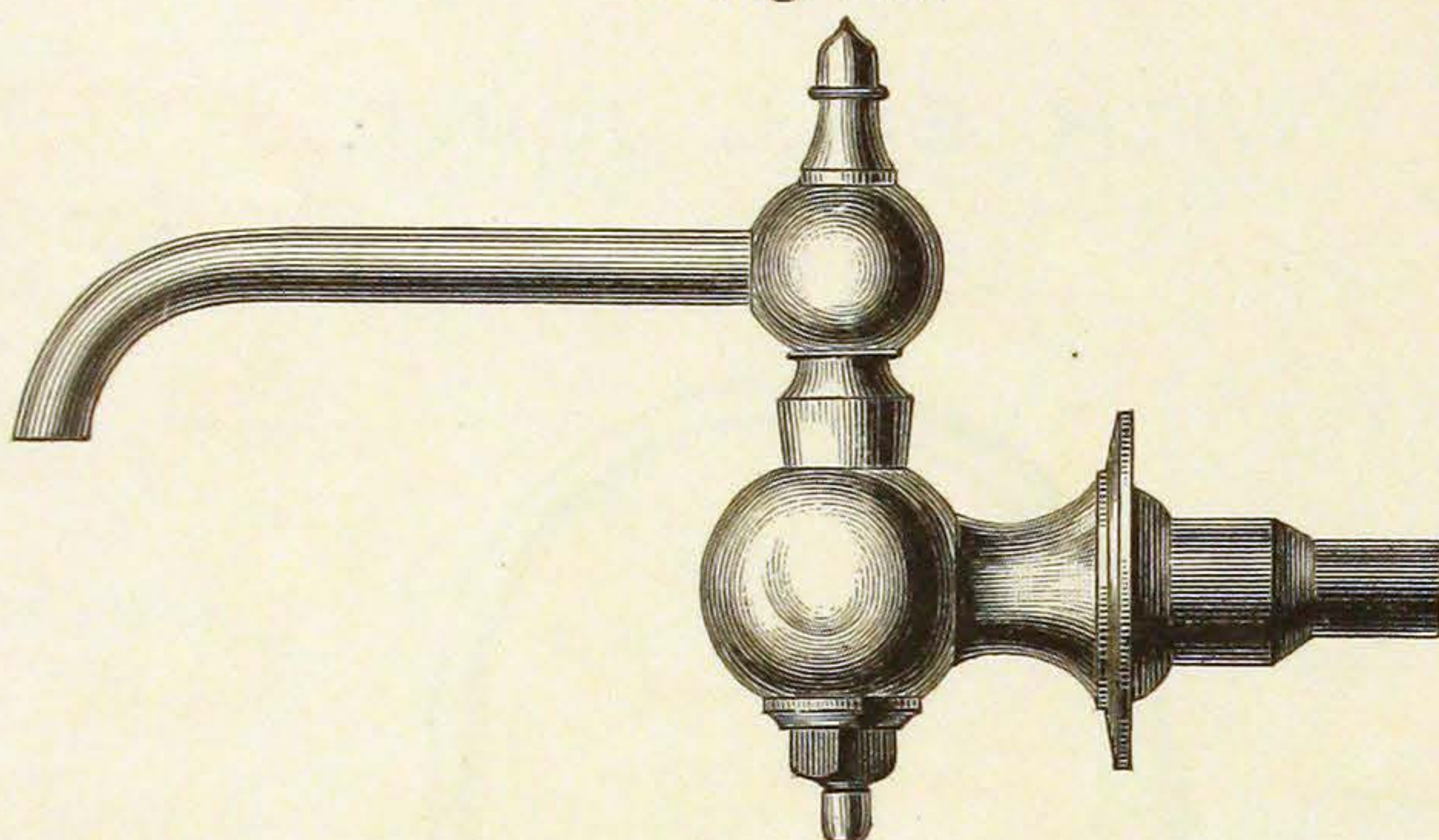


Finished and Plated.



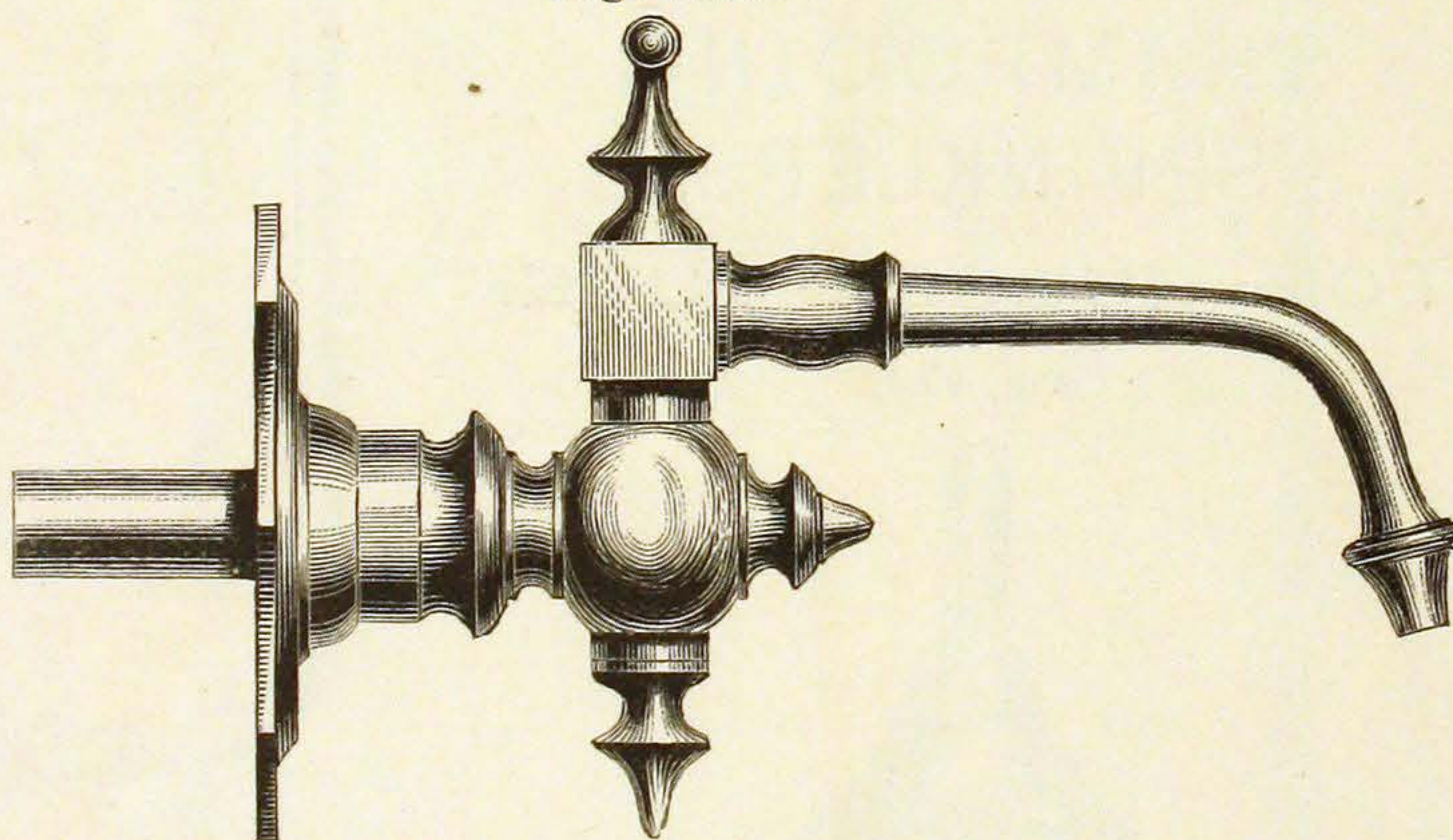
## BRACKET BASIN COCKS.

Fig. 740.



No. 1.

Fig. 741.

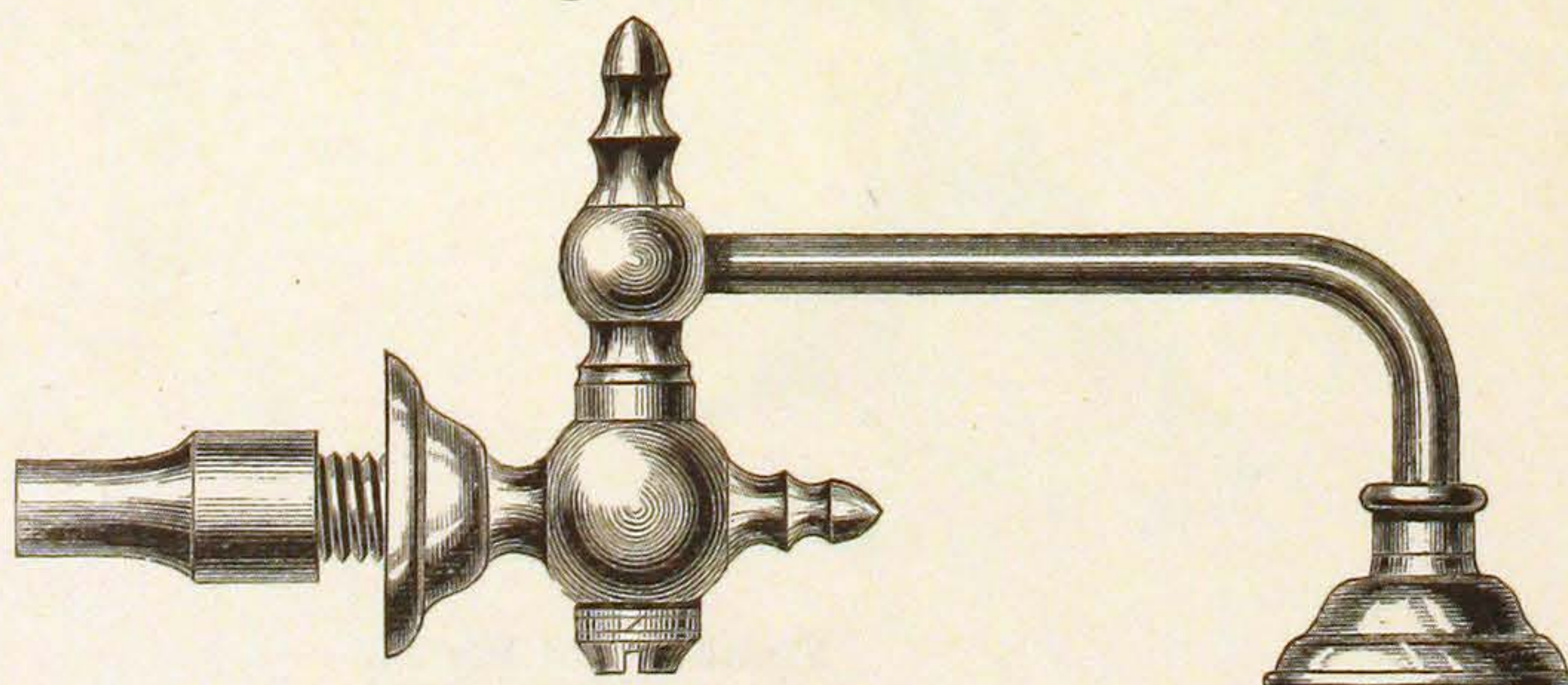


No. 2.

Finished and Plated.

## BRACKET SHAMPOOING COCK. GROUND COUPLING.

Fig. 742.

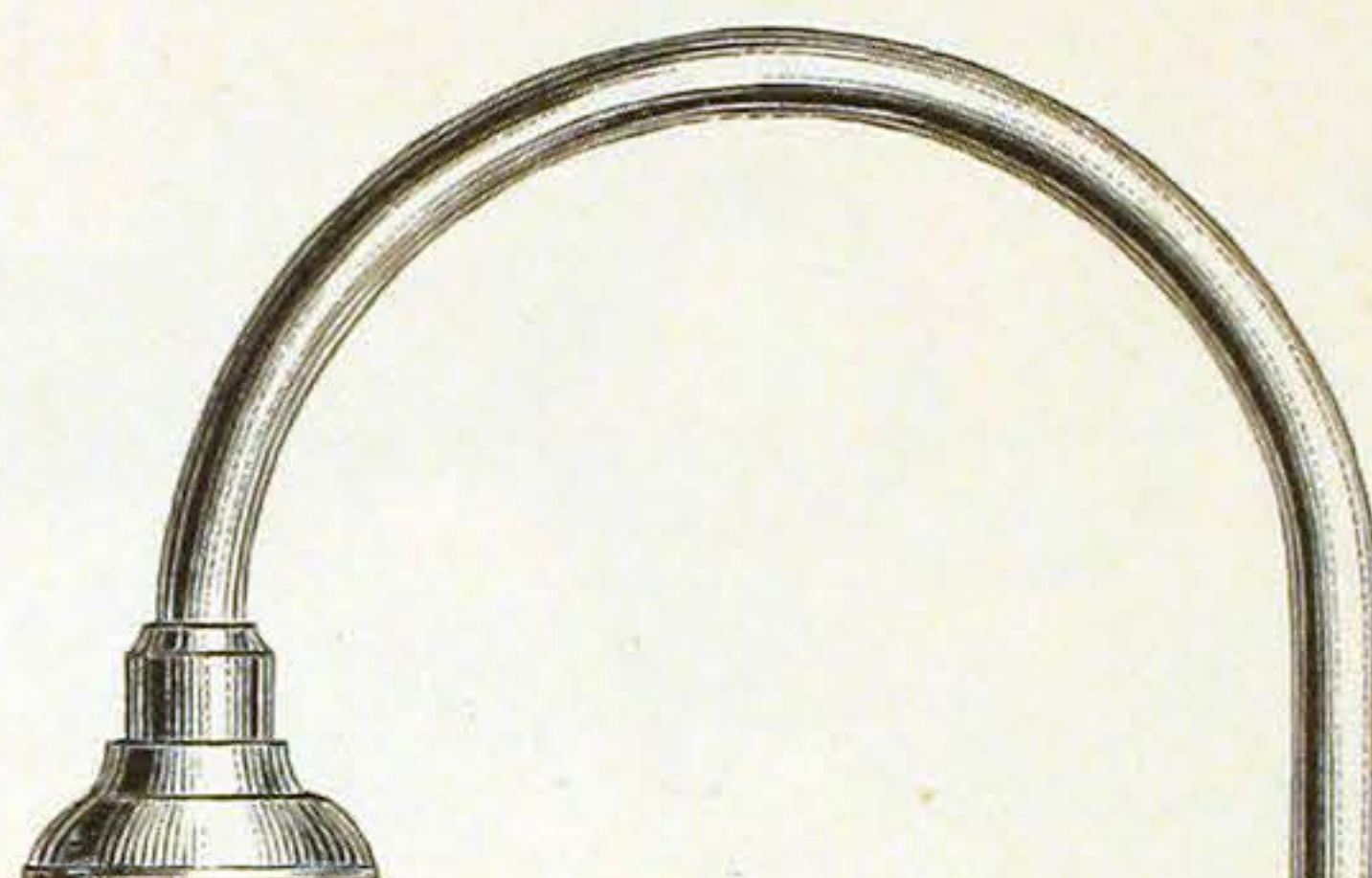


Finished and Plated.



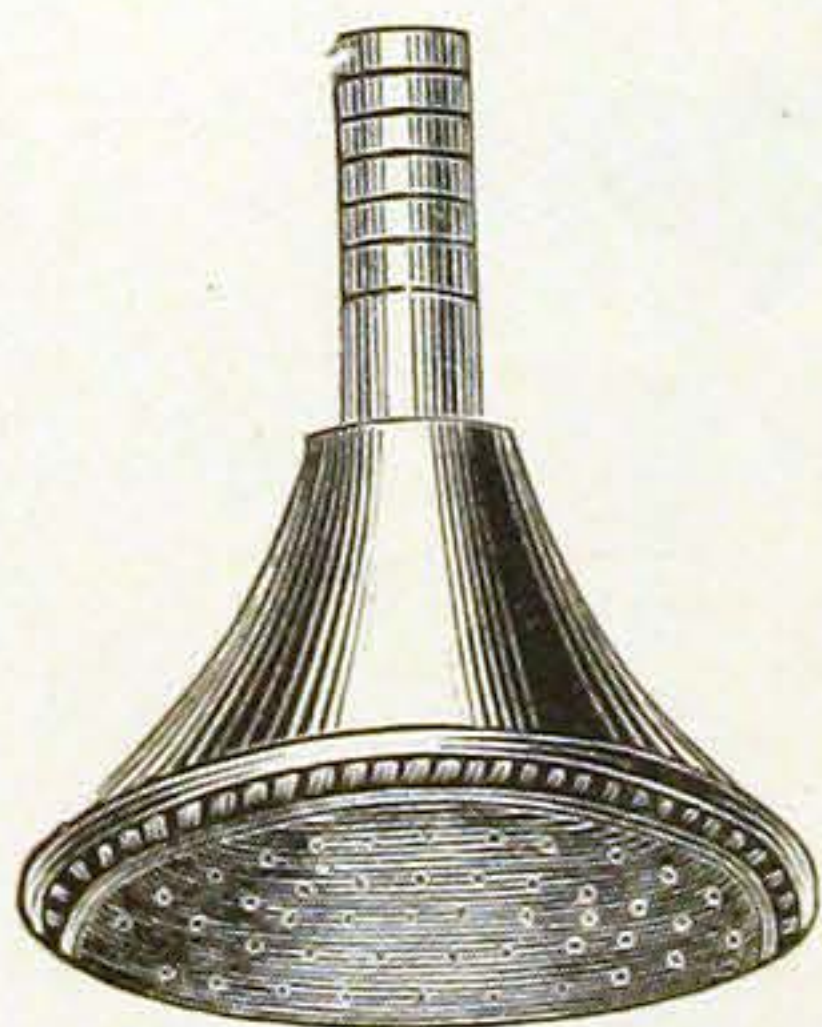
SHAMPOOING COCK.  
WITH BALL JOINT.

**Fig. 743.**

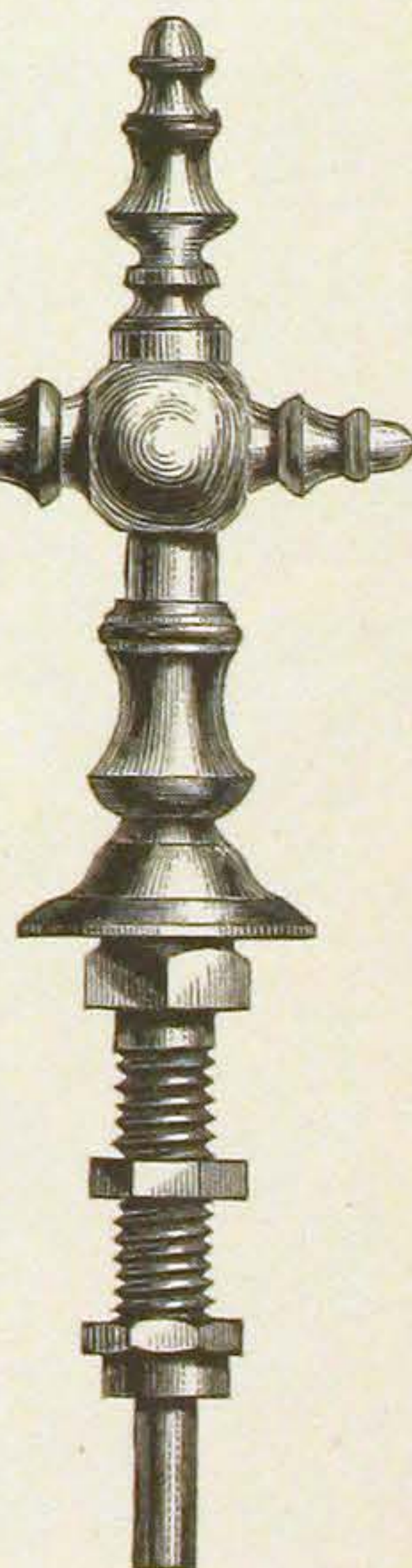
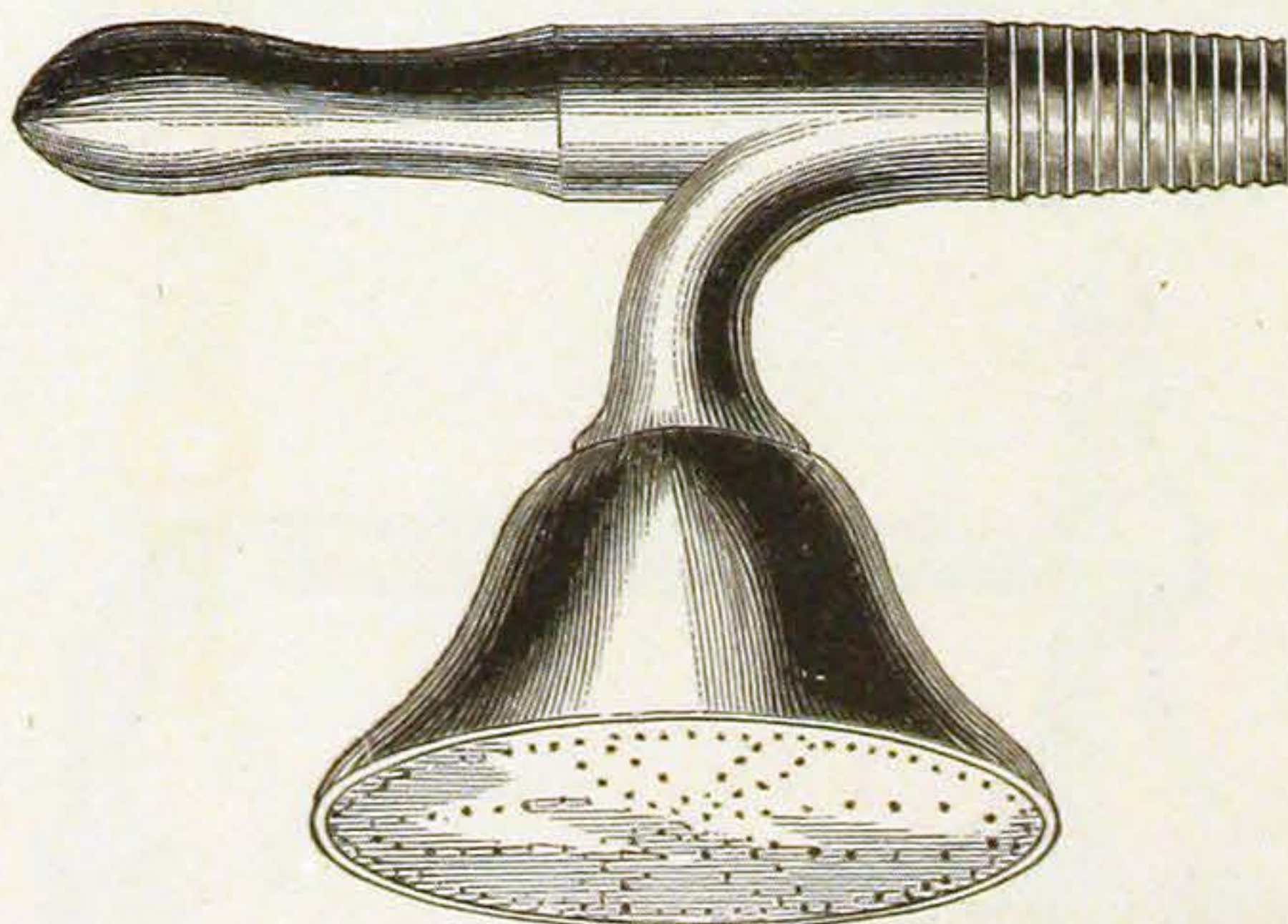


SHAMPOOING  
SPRINKLERS.  
FOR RUBBER TUBE.

**Fig. 744.**



**Fig. 745.**



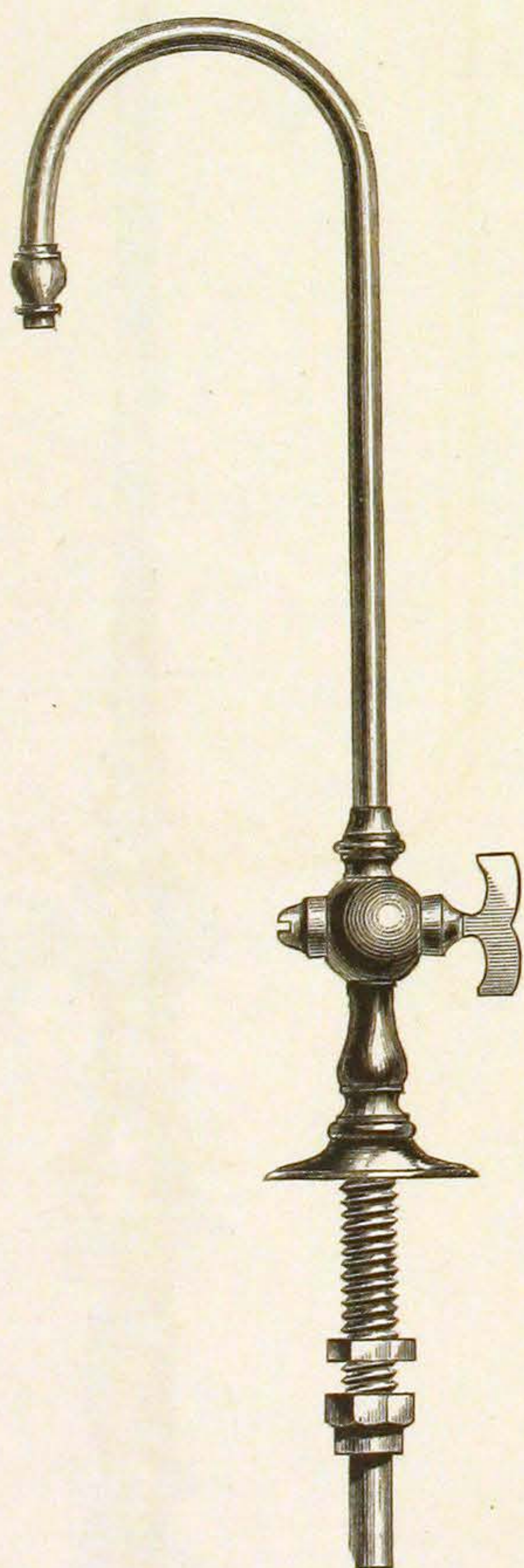
Finished and Plated.



COUNTER COCKS.

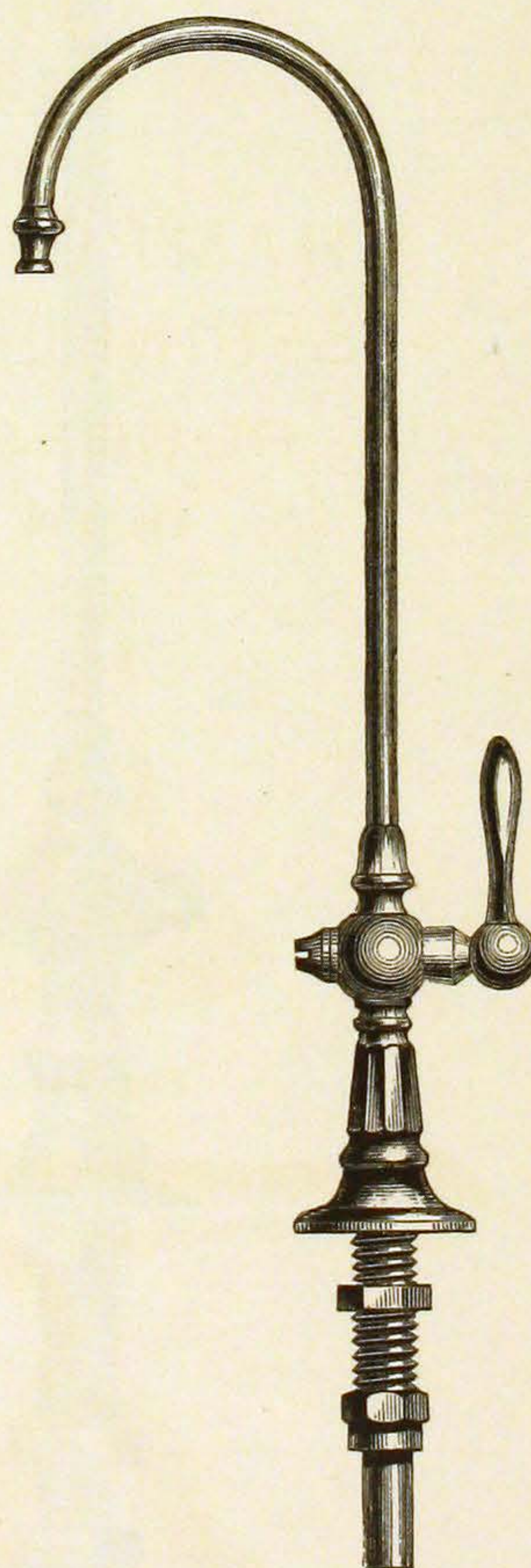
T HANDLE.

Fig. 746.



LEVER HANDLE.

Fig. 747.



Finished and Plated.



## PANTRY COCKS.

T HANDLE.

Fig. 748.

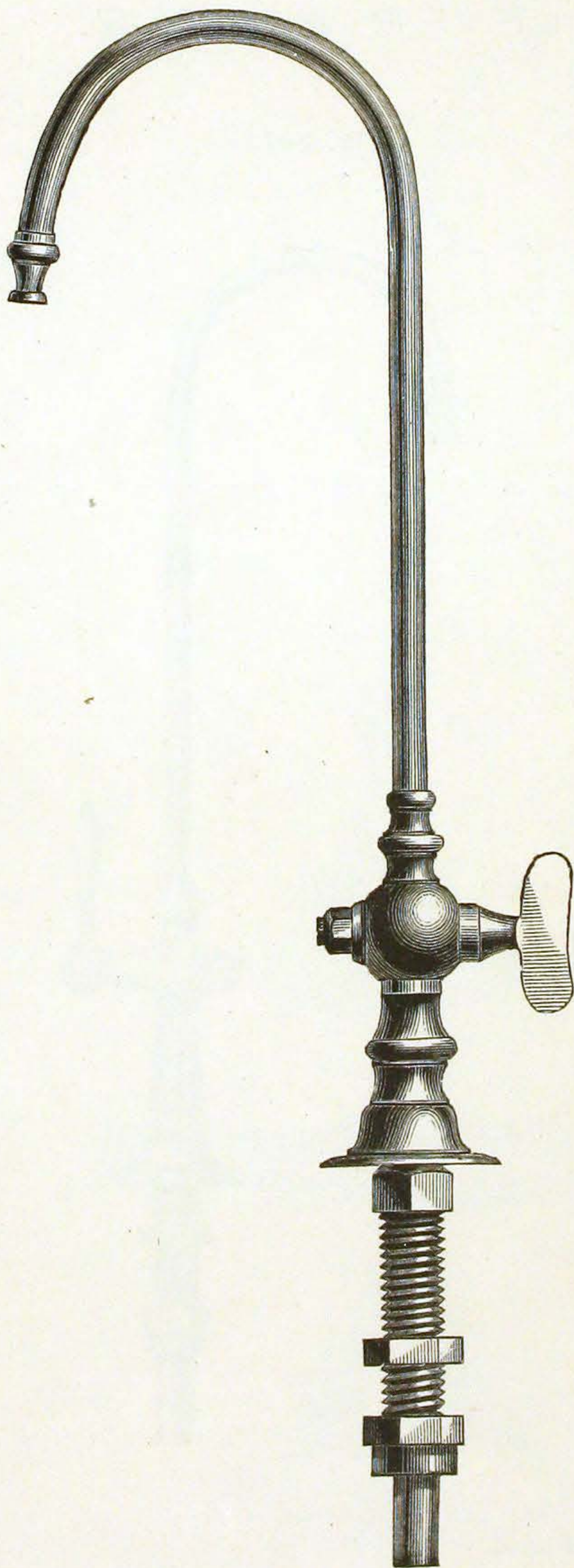
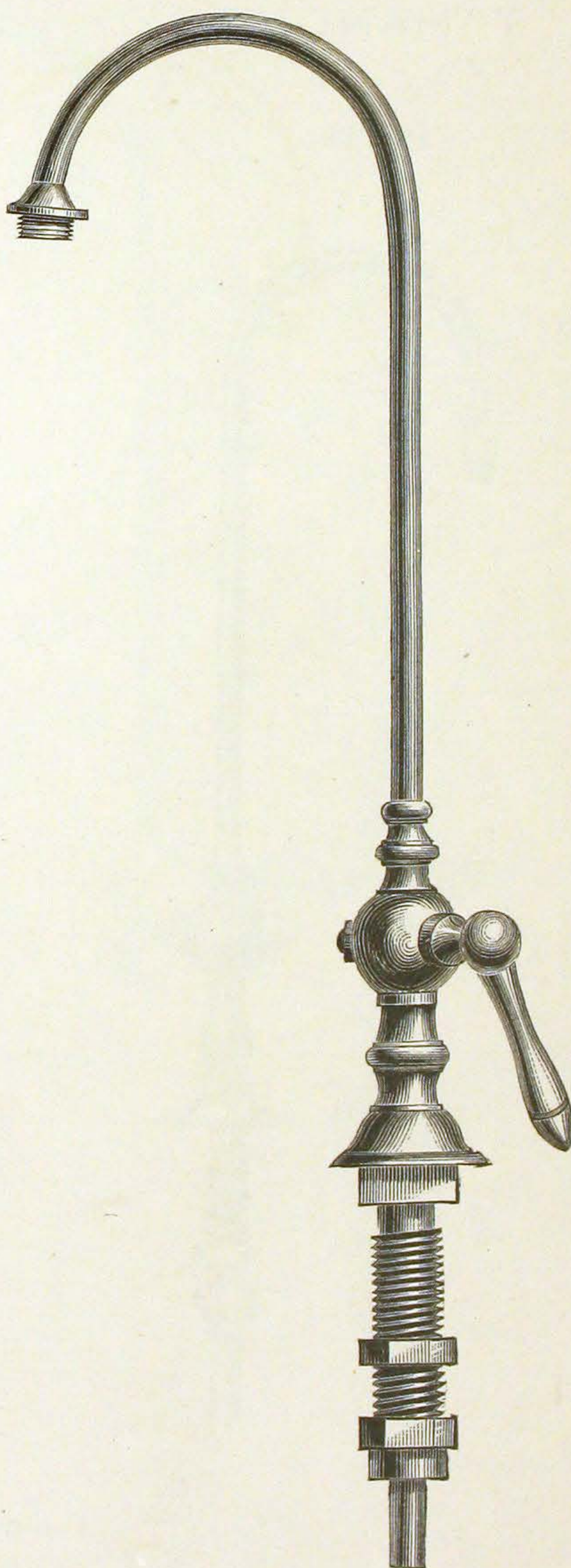
LEVER HANDLE,  
HOSE END.

Fig. 749.



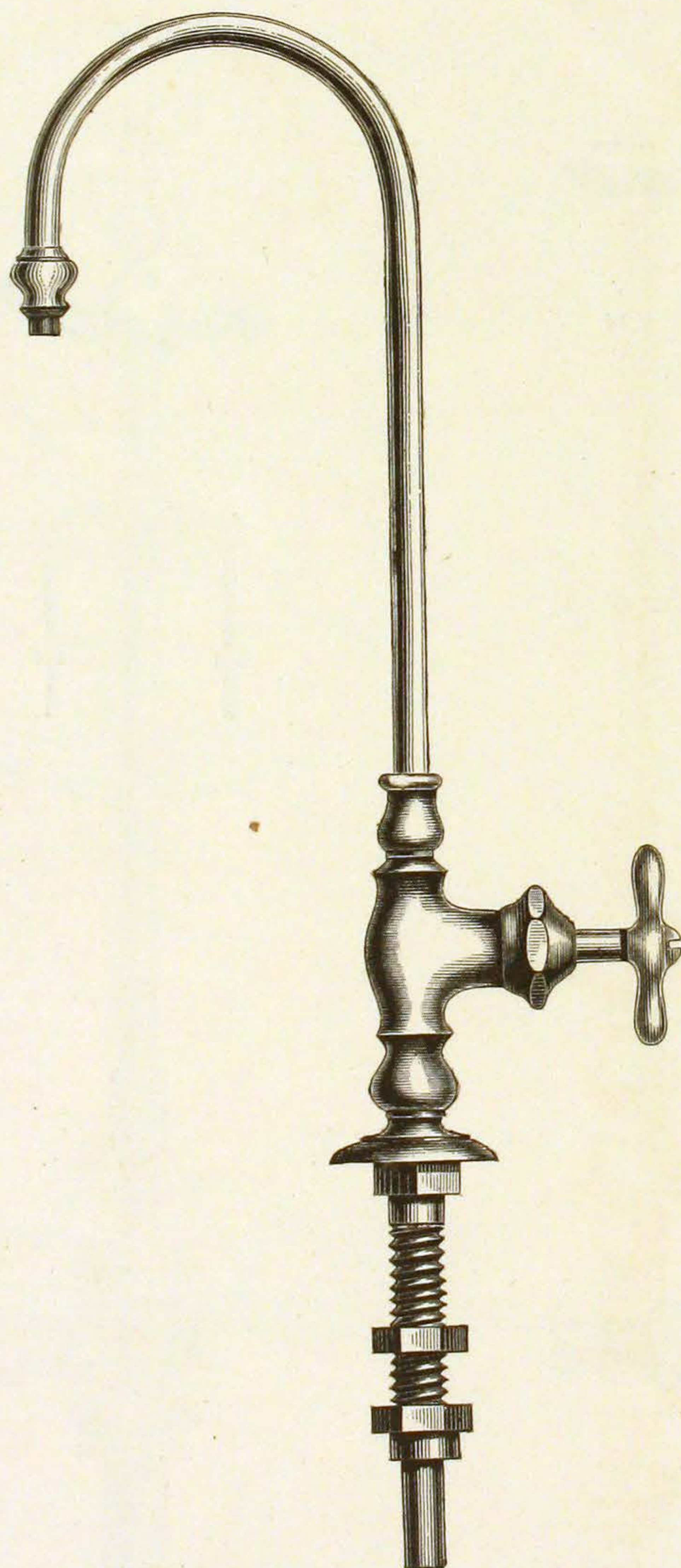
Finished and Plated.



# COMPRESSION PANTRY COCK.

T HANDLE.

Fig. 750.



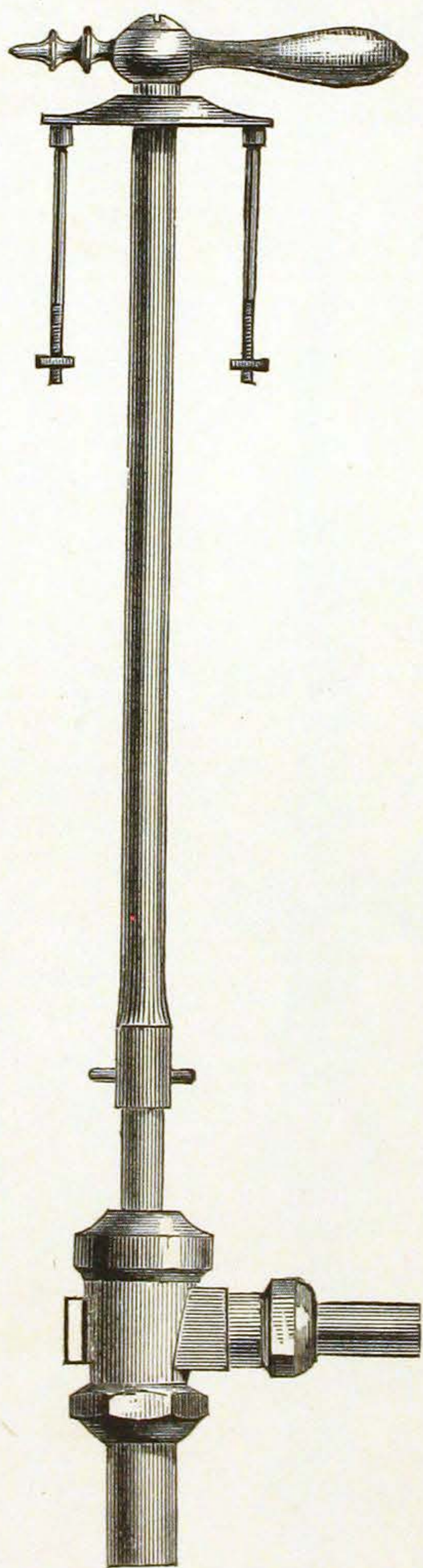
Finished and Plated.



## BOSTON WASTE COCKS.

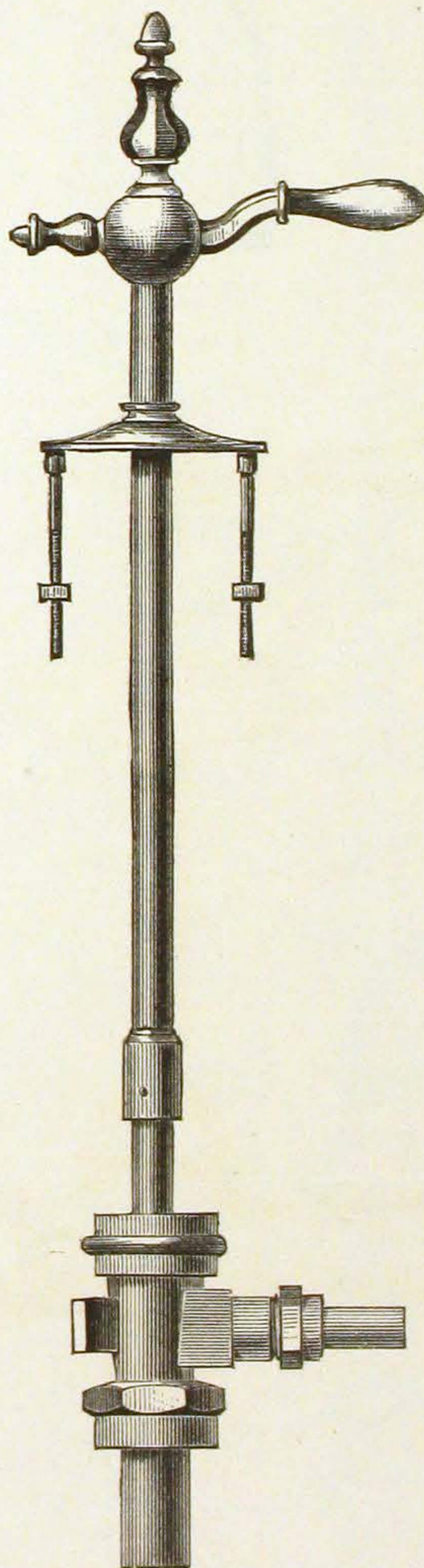
No. 1.

Fig. 751.



No. 2.

Fig. 752.



Finished and Plated.

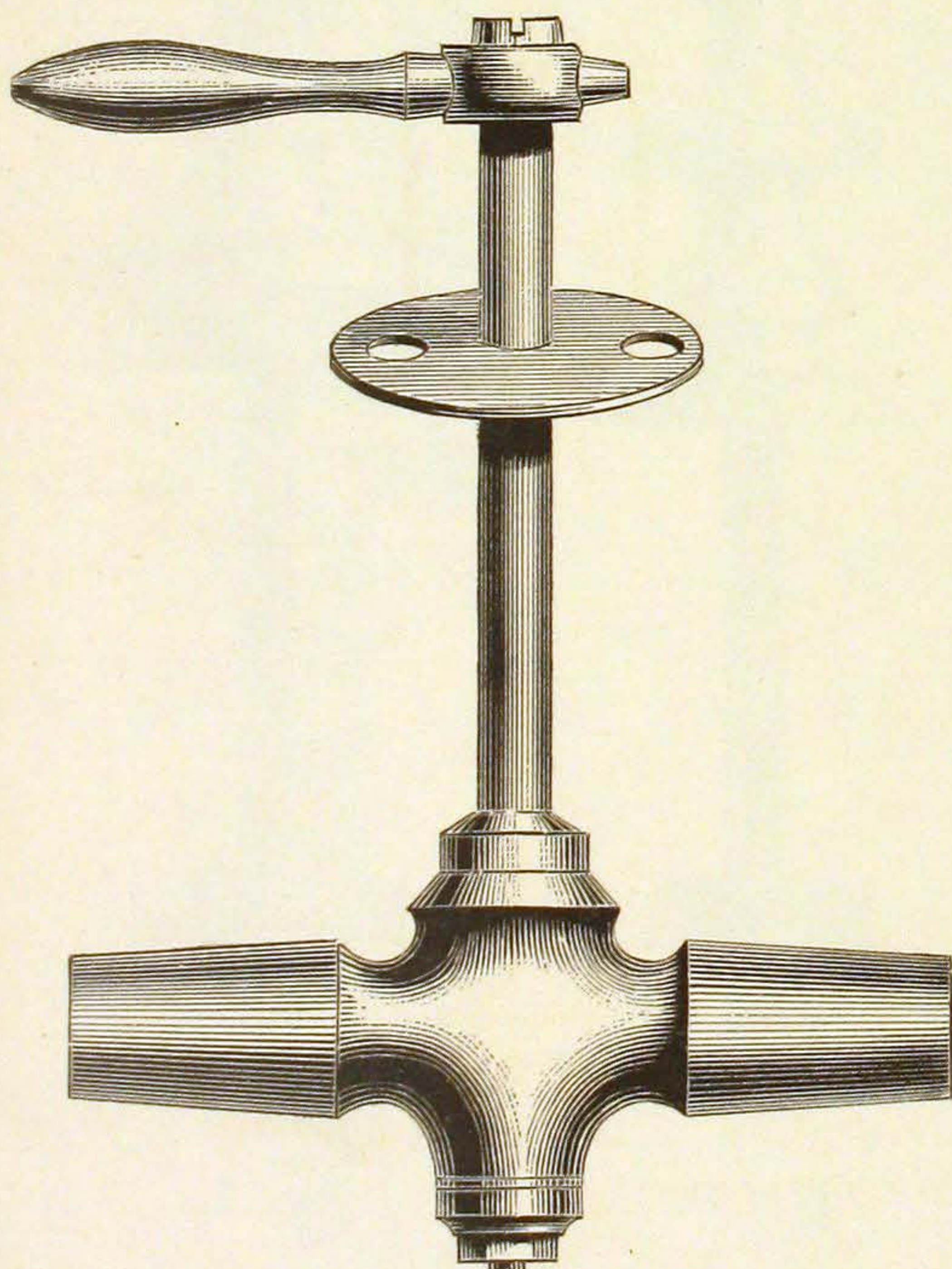


## HOPPER COCKS.

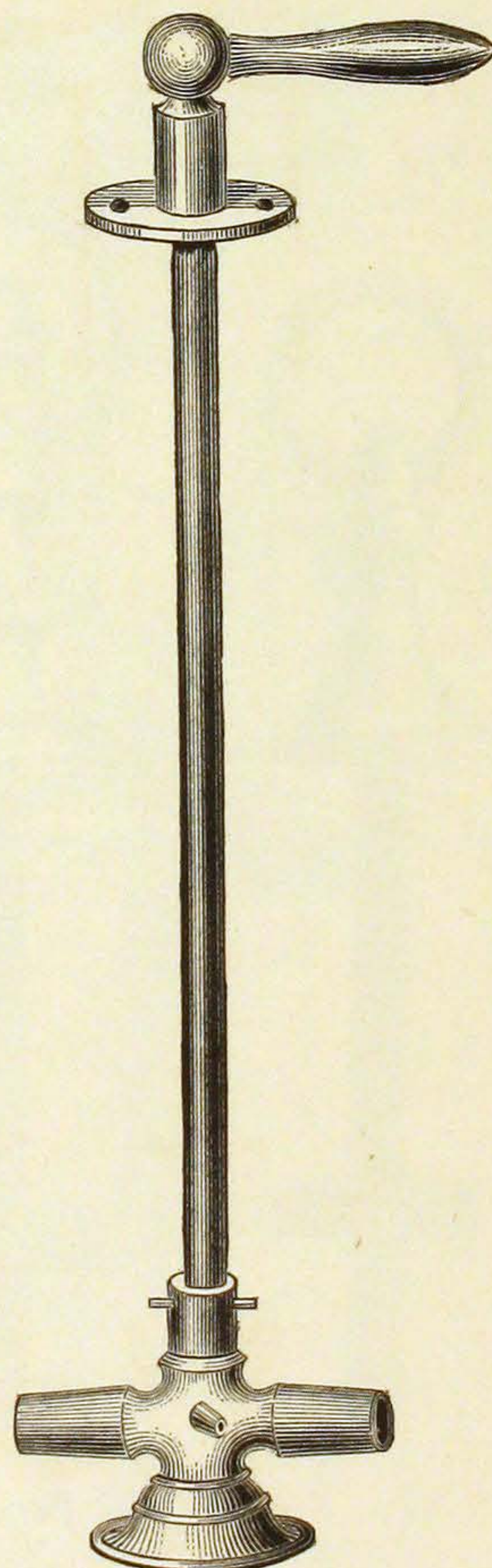
LONG STEM.

PEDESTAL.

**Fig. 753.**



**Fig. 754.**

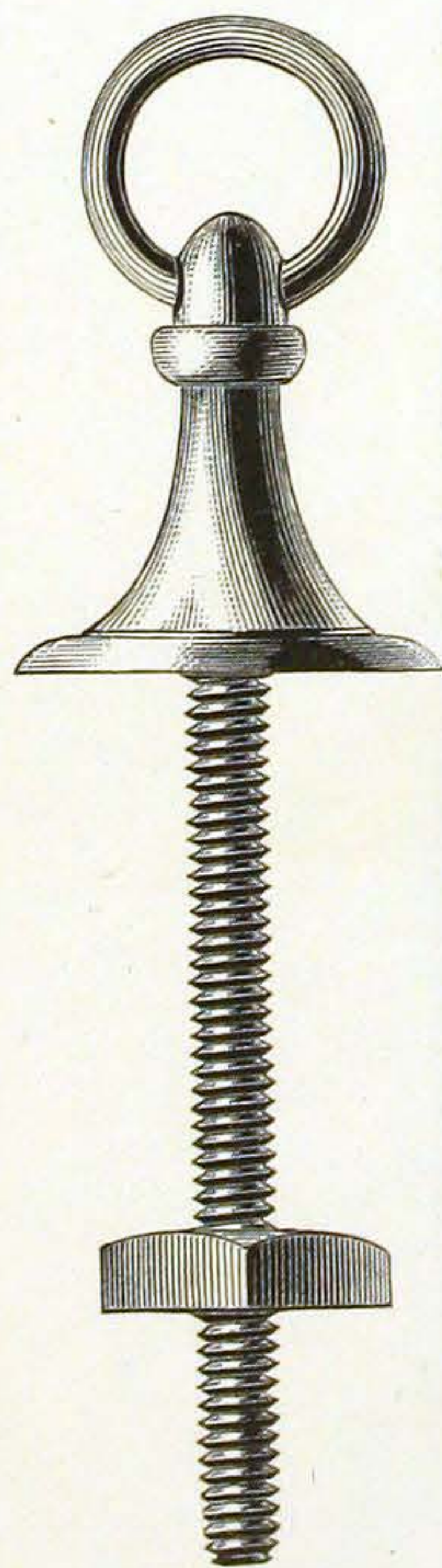


Rough, Finished, Flange and Handle.



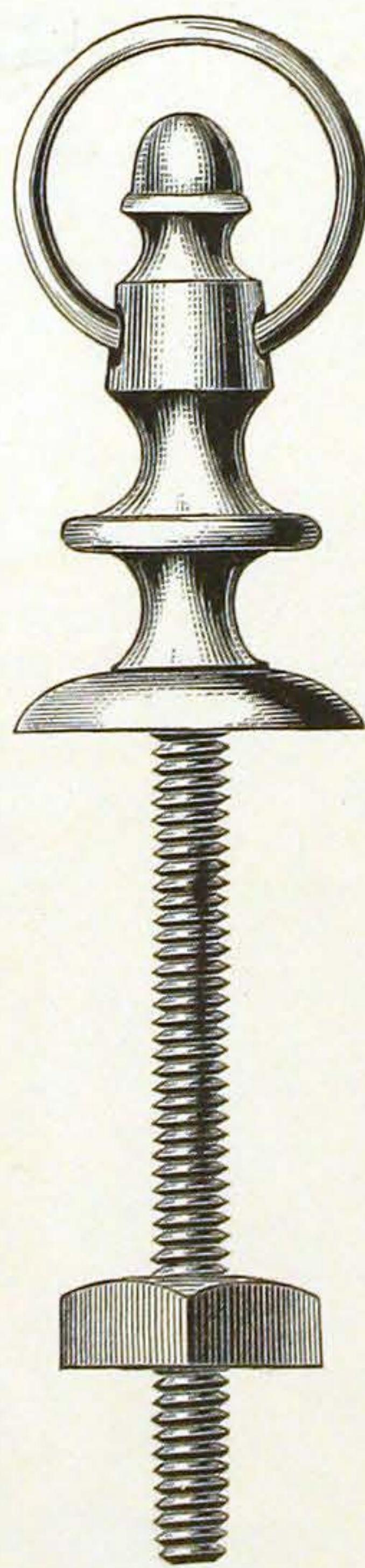
## CHAIN STAYS.

Fig. 755.



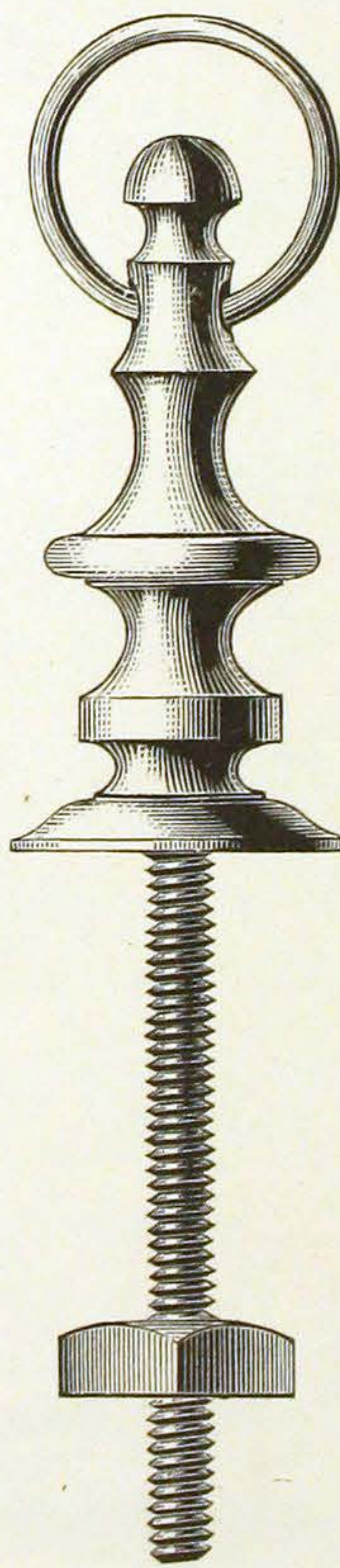
No. 1.

Fig. 756.



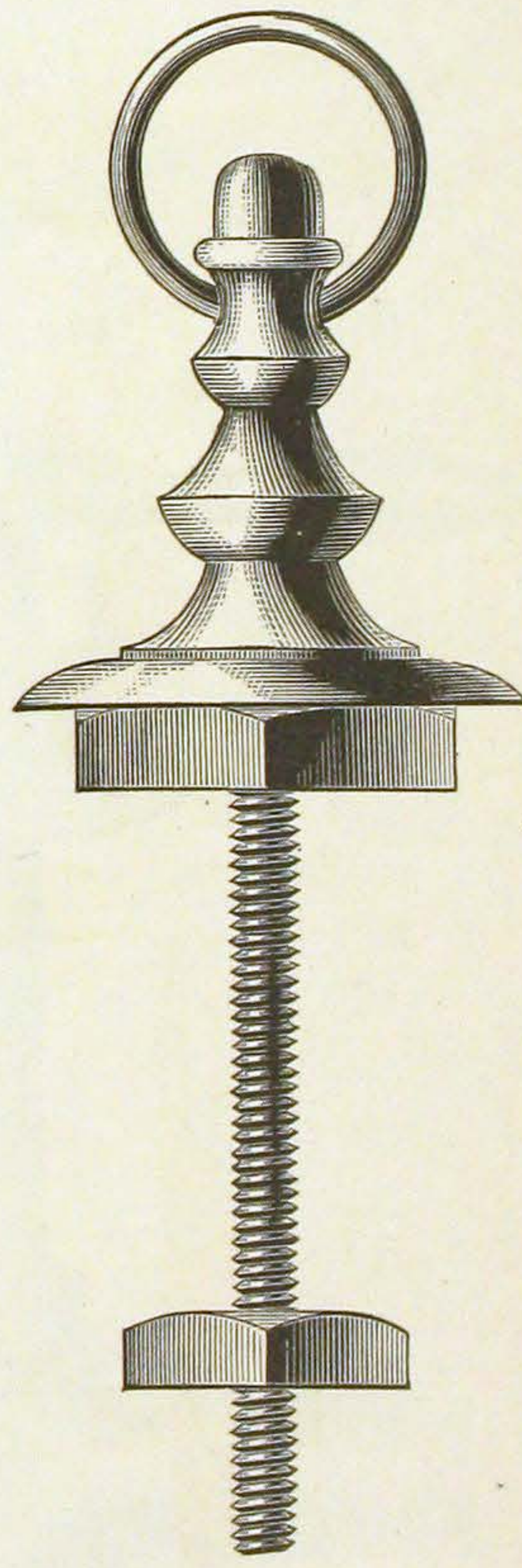
No. 2.

Fig. 757.



No. 3.

Fig. 758.



No. 4.

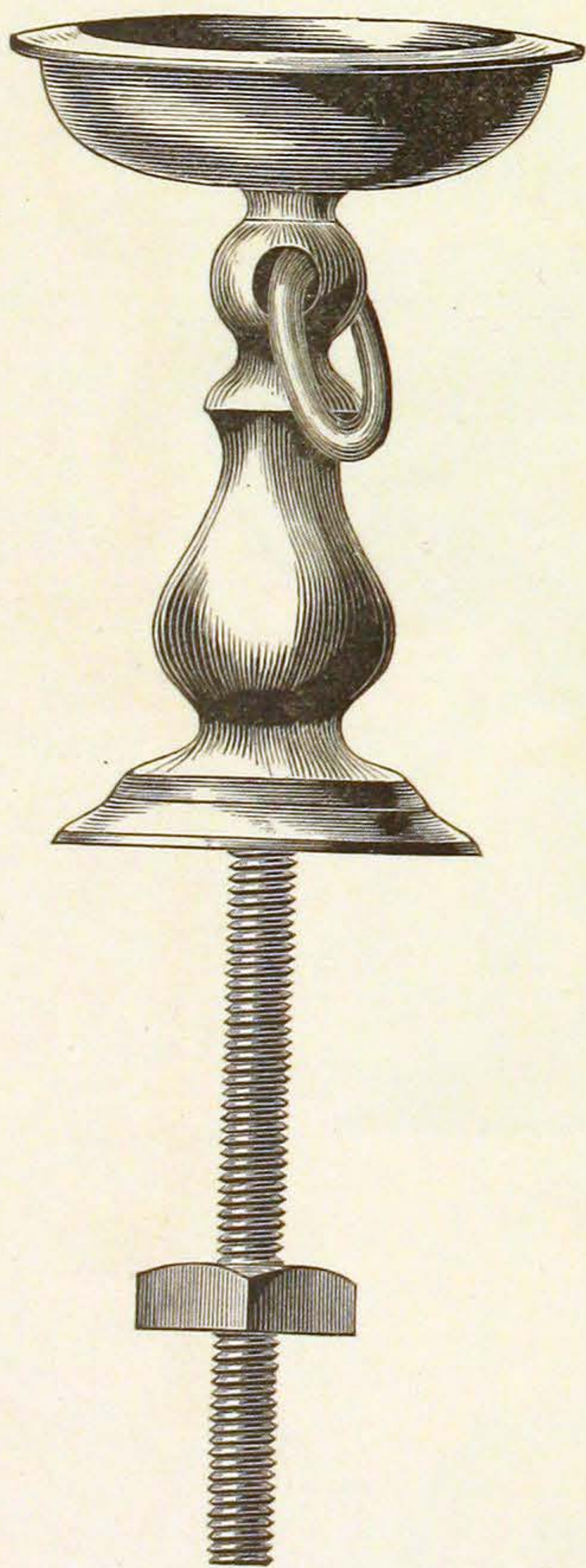
Finished and Plated.



## CHAIN STAYS.

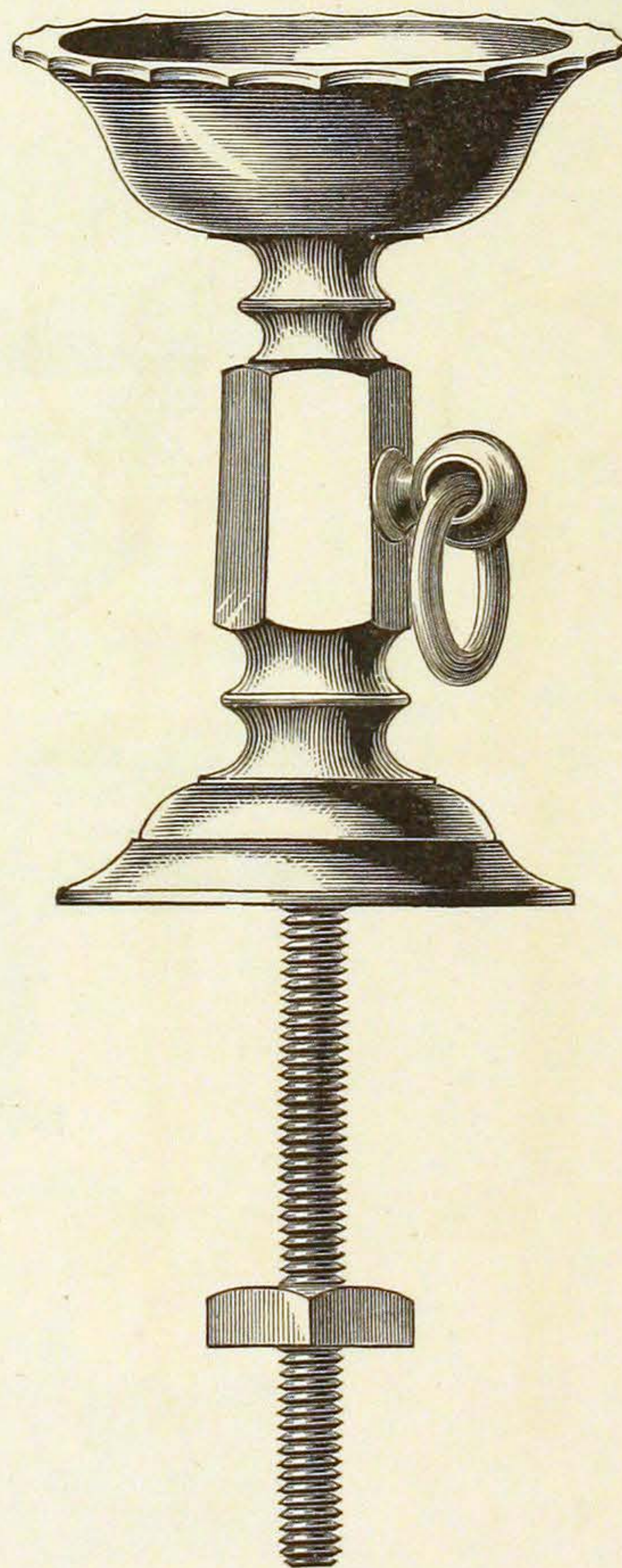
WITH JEWEL HOLDERS.

**Fig. 759.**



No. 5.

**Fig. 760.**

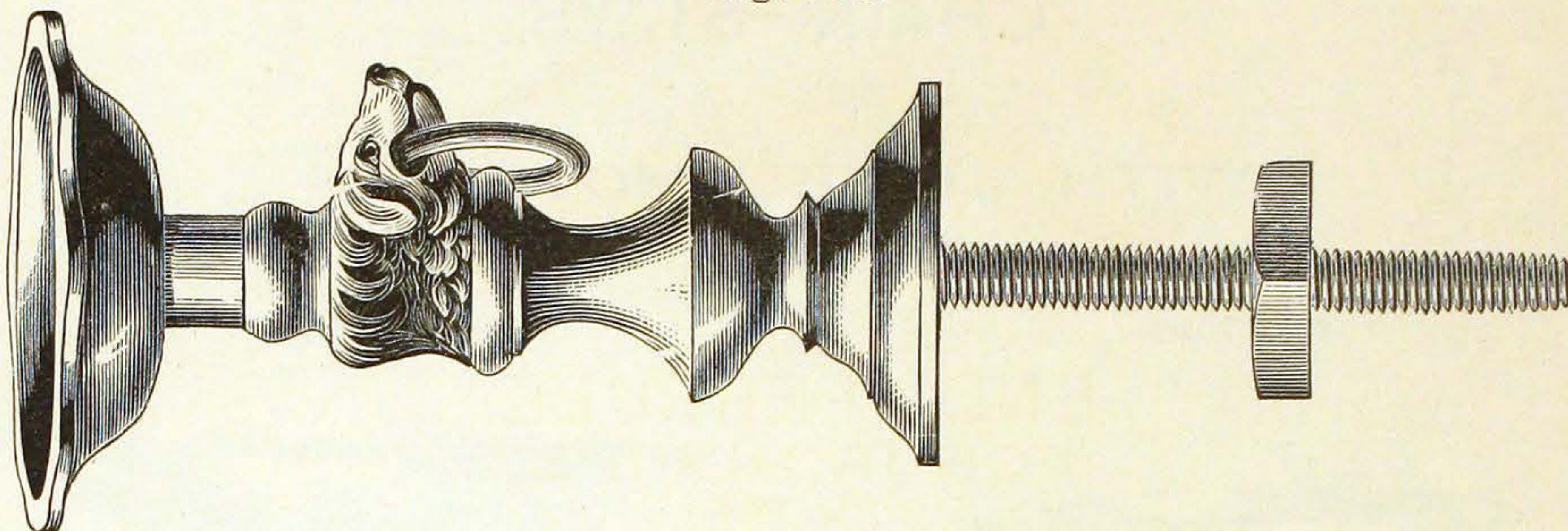


No. 6, Octagon.

**Finished and Plated.**

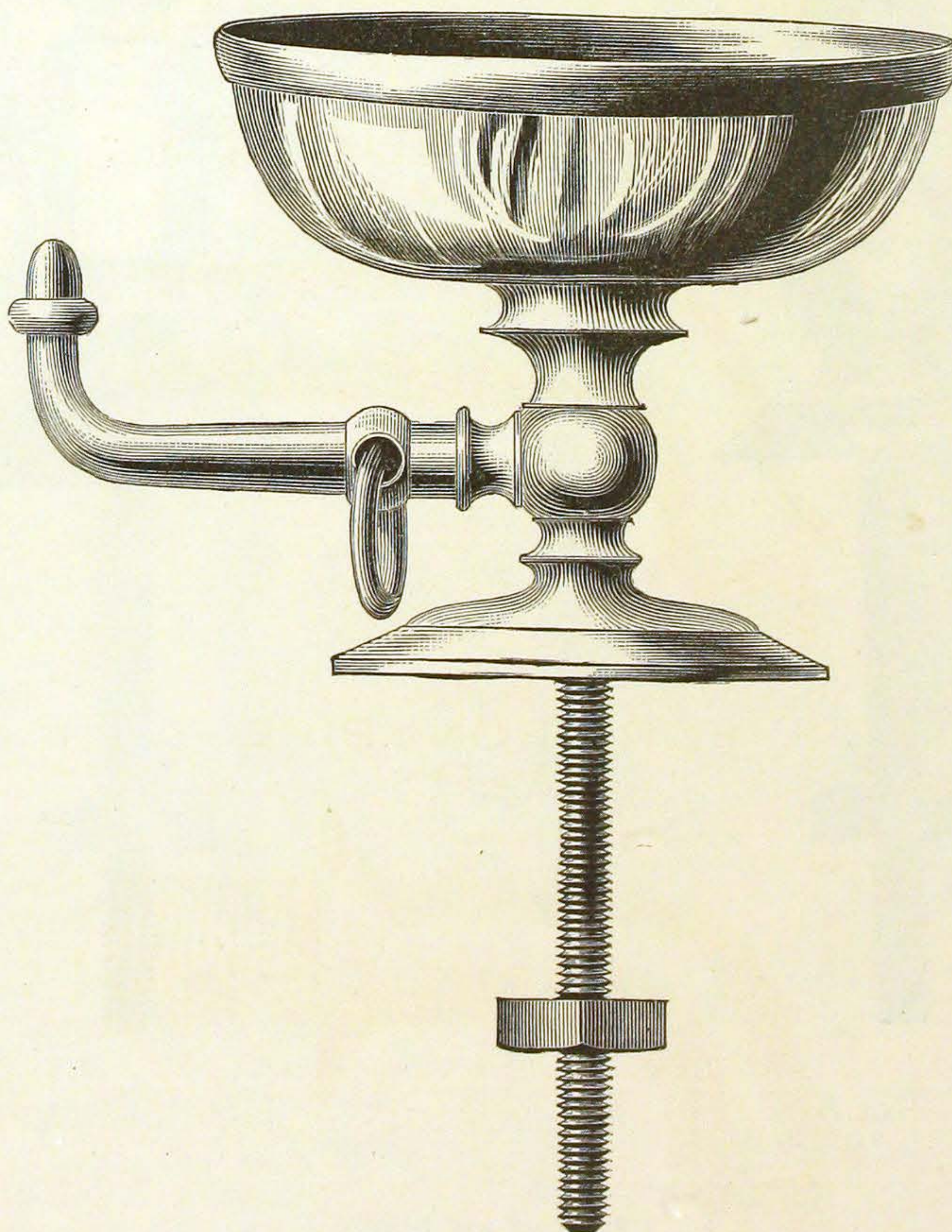


CHAIN STAYS.  
WITH JEWEL HOLDER. DOG'S HEAD.  
Fig. 761.



No. 7.

WITH SOAP CUP.  
Fig. 762.



No. 8.

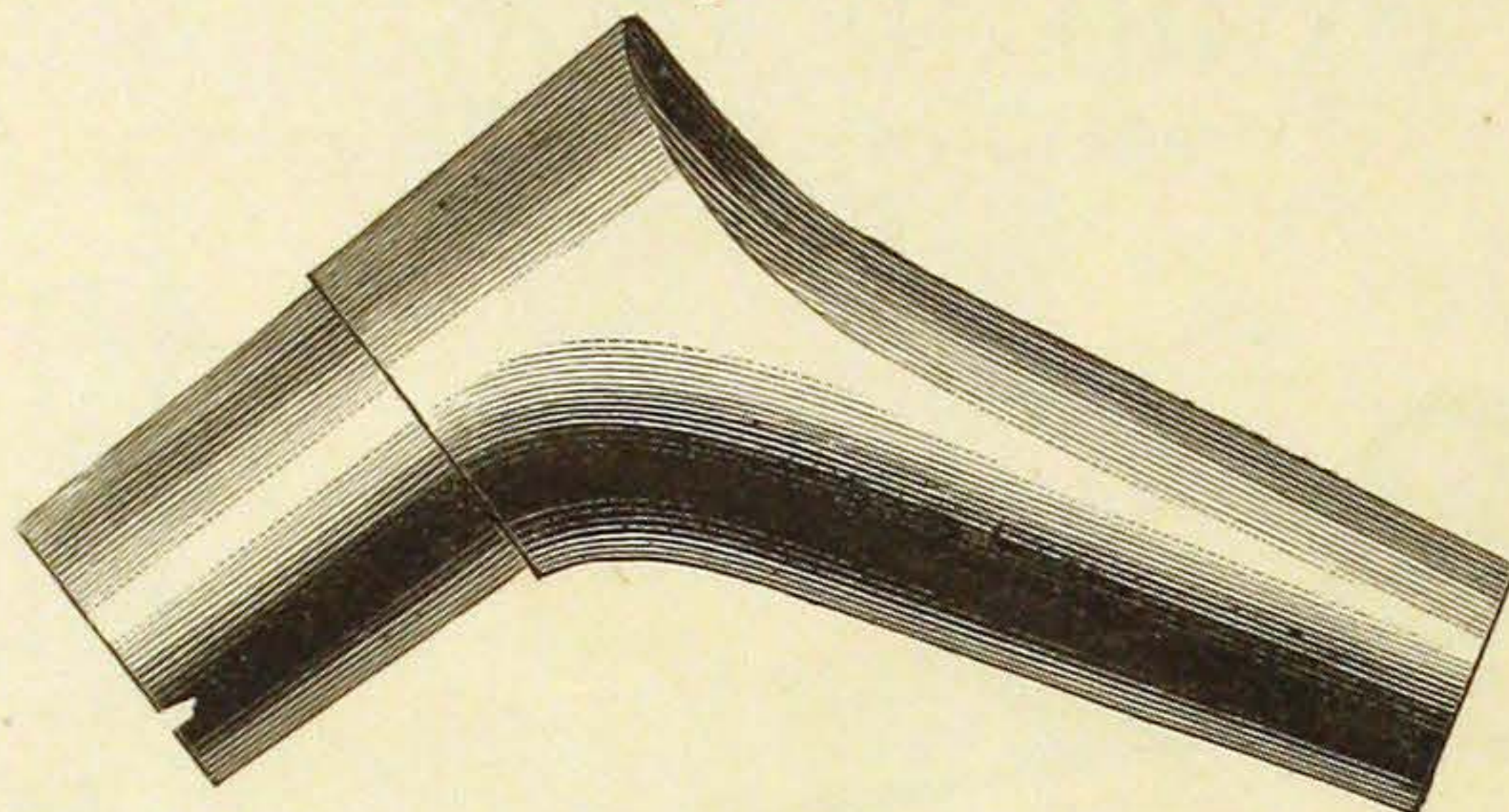
Finished and Plated.



SIDE FERRULE.  
FOR IRON PIPE.

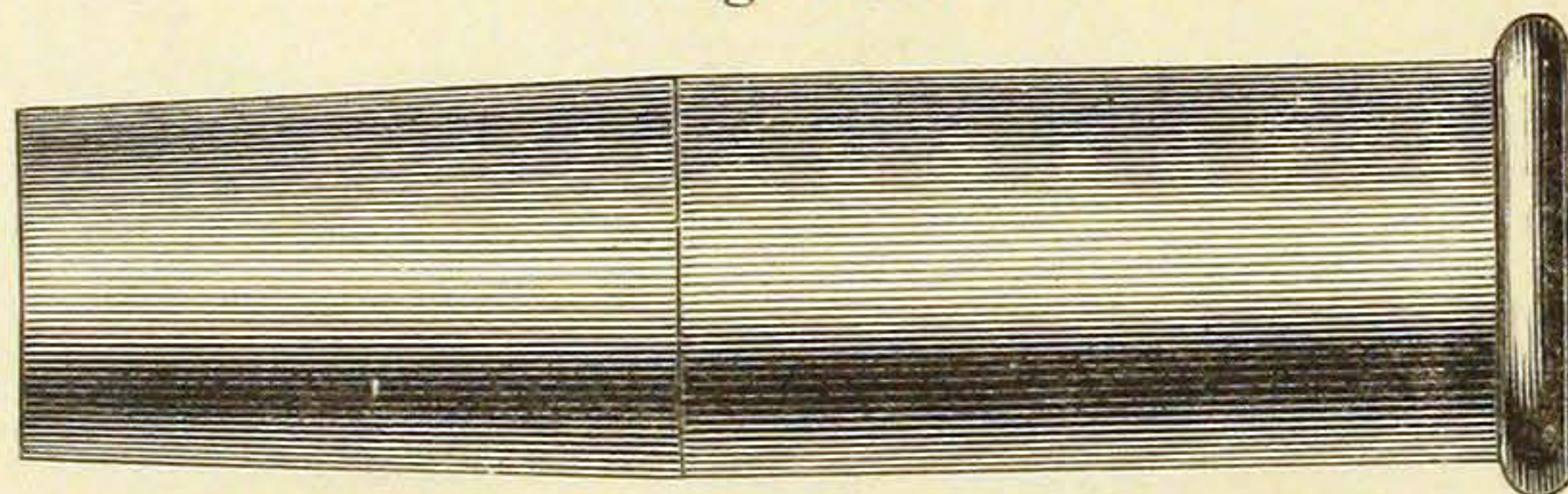
213

Fig. 763.



Rough.  
END FERRULE.  
FOR IRON PIPE.

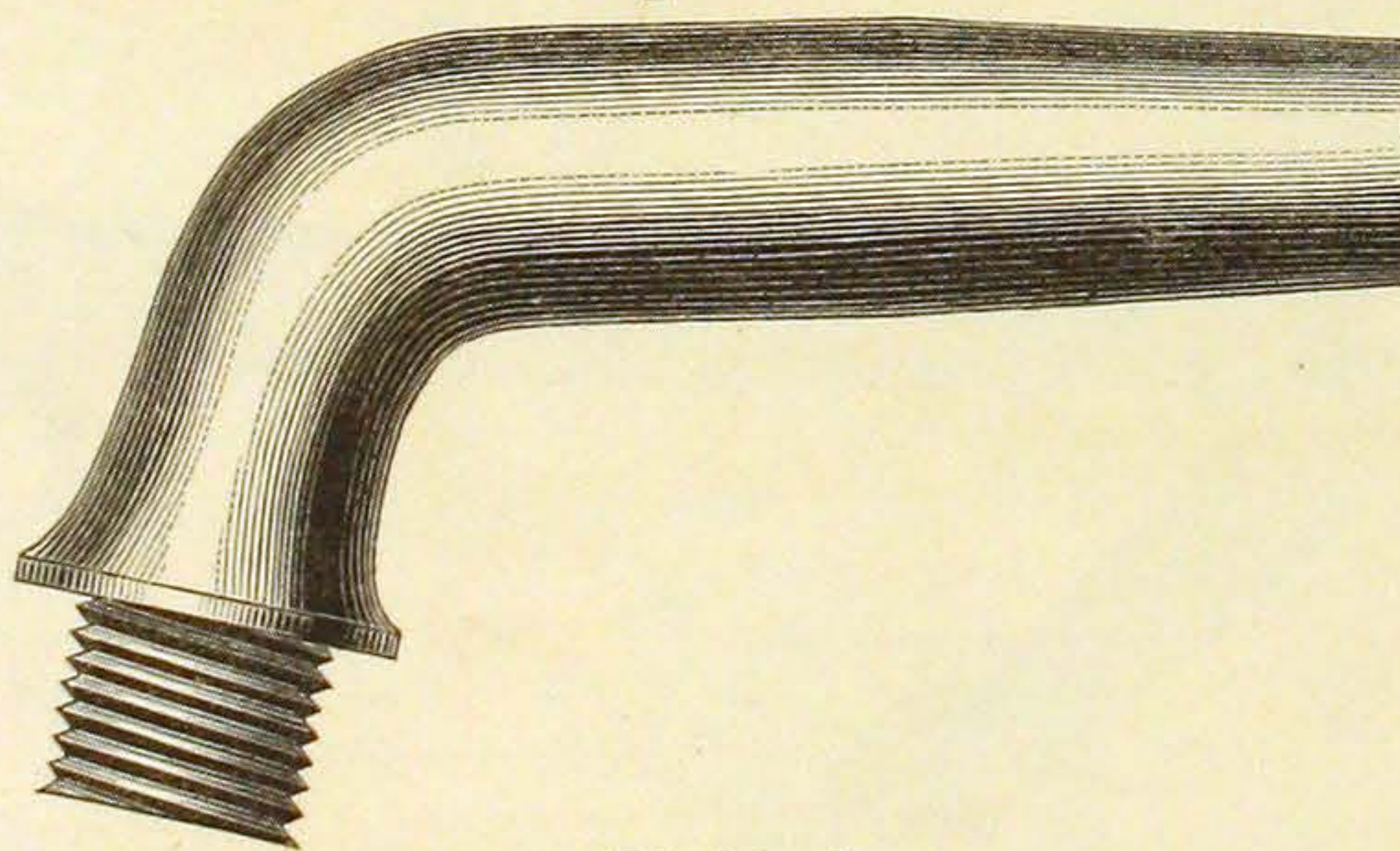
Fig. 764.



Rough.

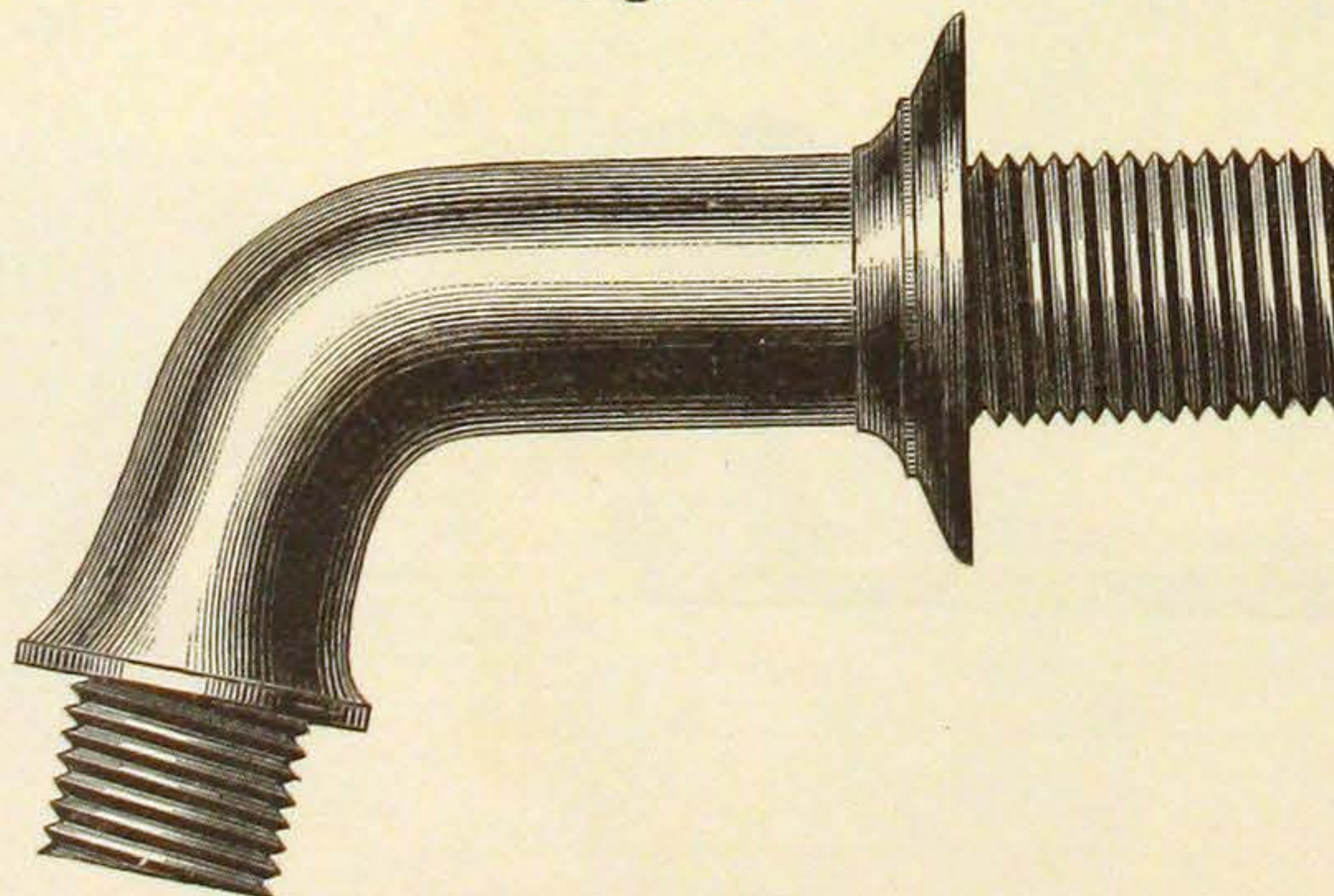
HYDRANT NOZZLES.  
FOR LEAD PIPE.

Fig. 765.



Finished.  
FOR IRON PIPE.

Fig. 766.

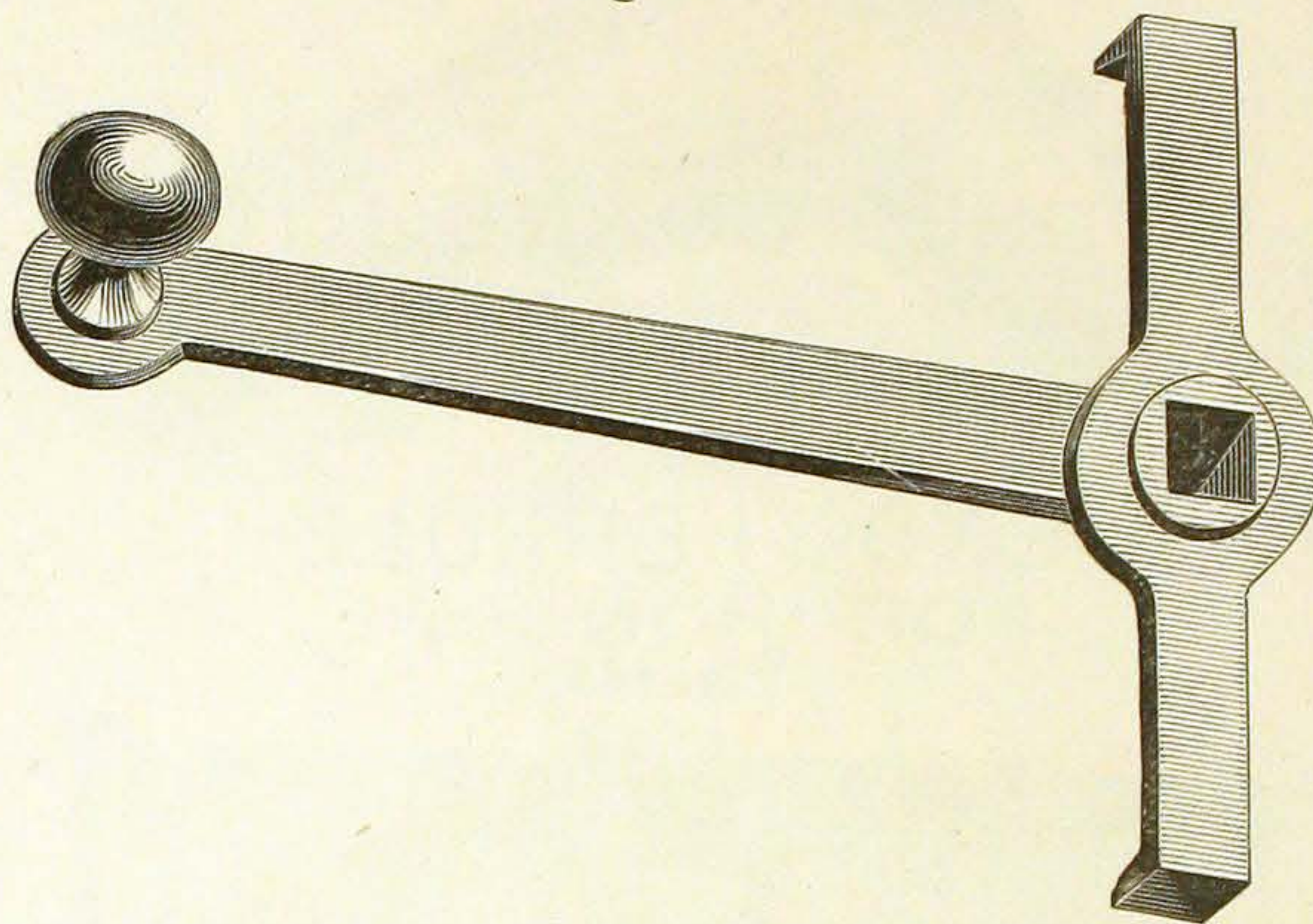


Finished.



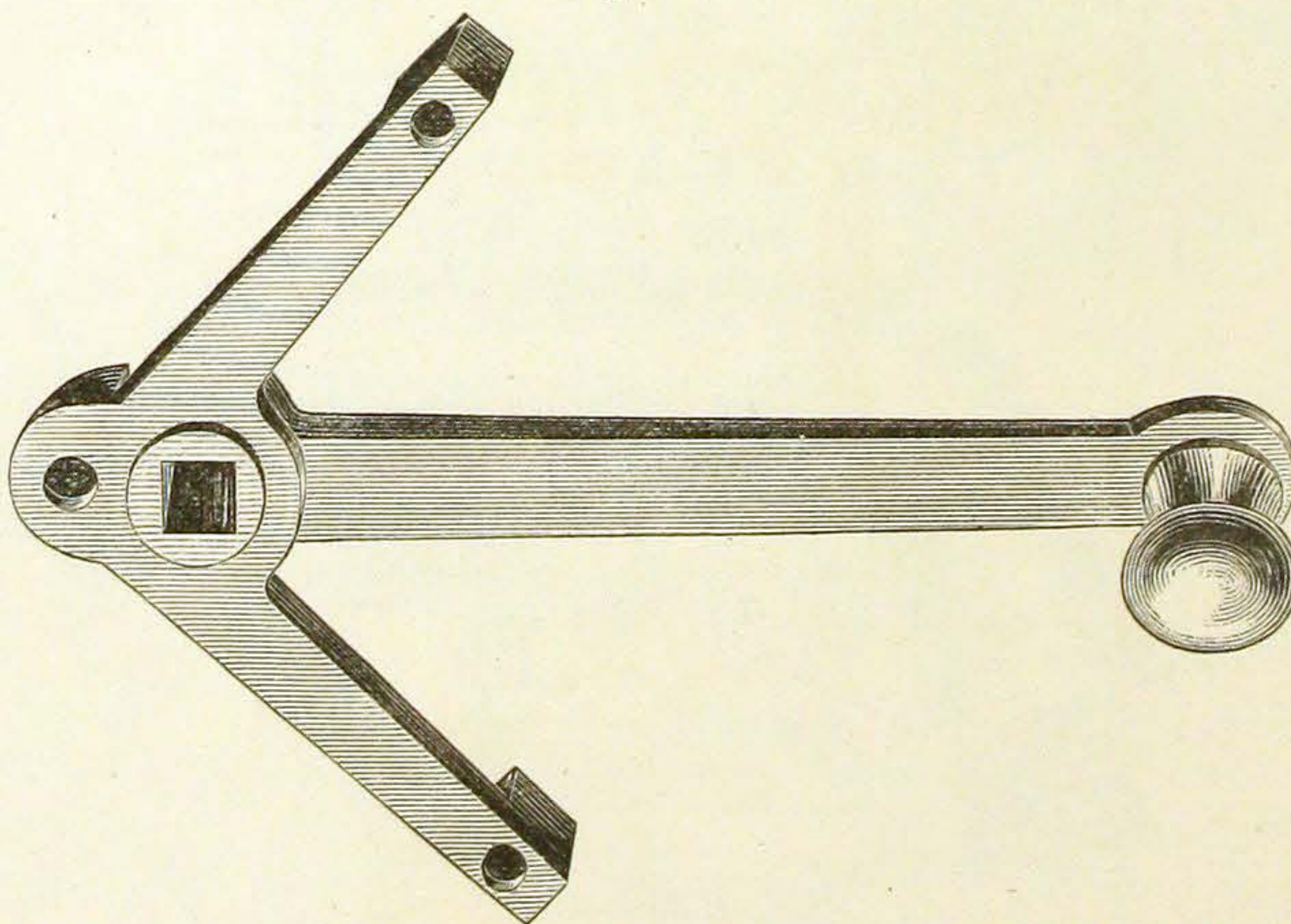
# HYDRANT HANDLES. WITH GUIDE.

Fig. 767.



## WITH TRIANGULAR GUIDE.

Fig. 768.



## FOR COMPRESSION COCK. CHECK AND GUIDE.

Fig. 769.

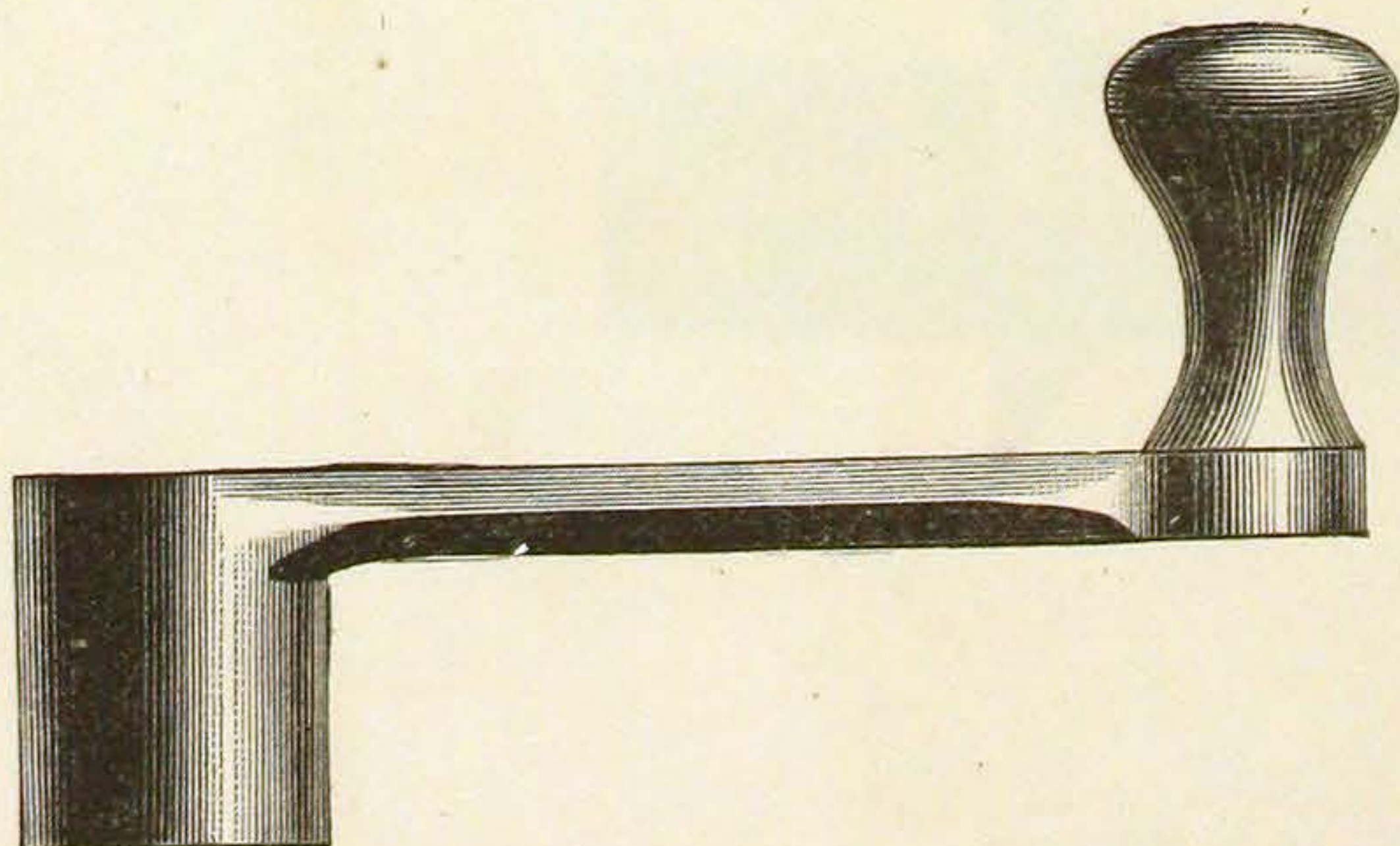
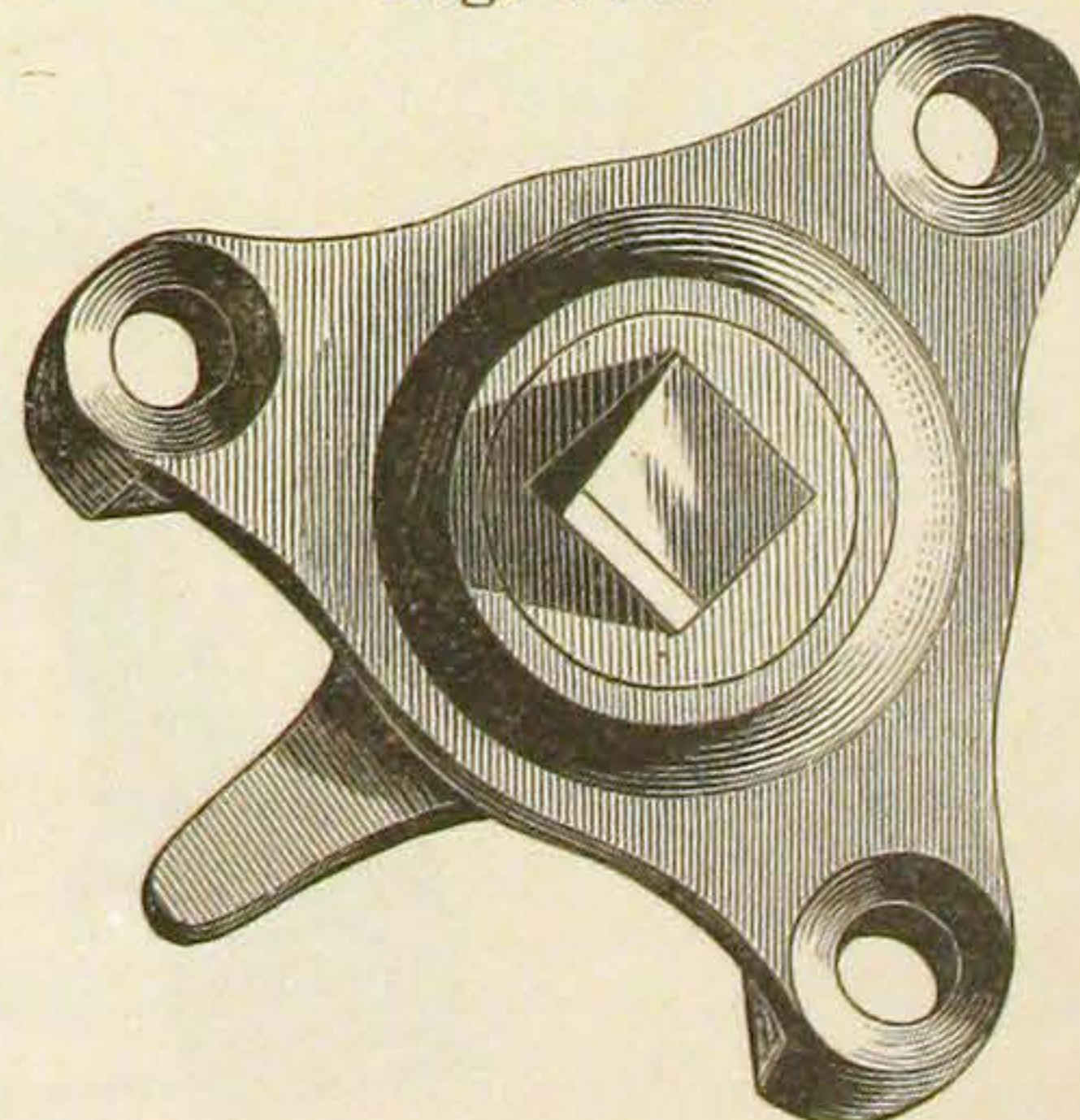


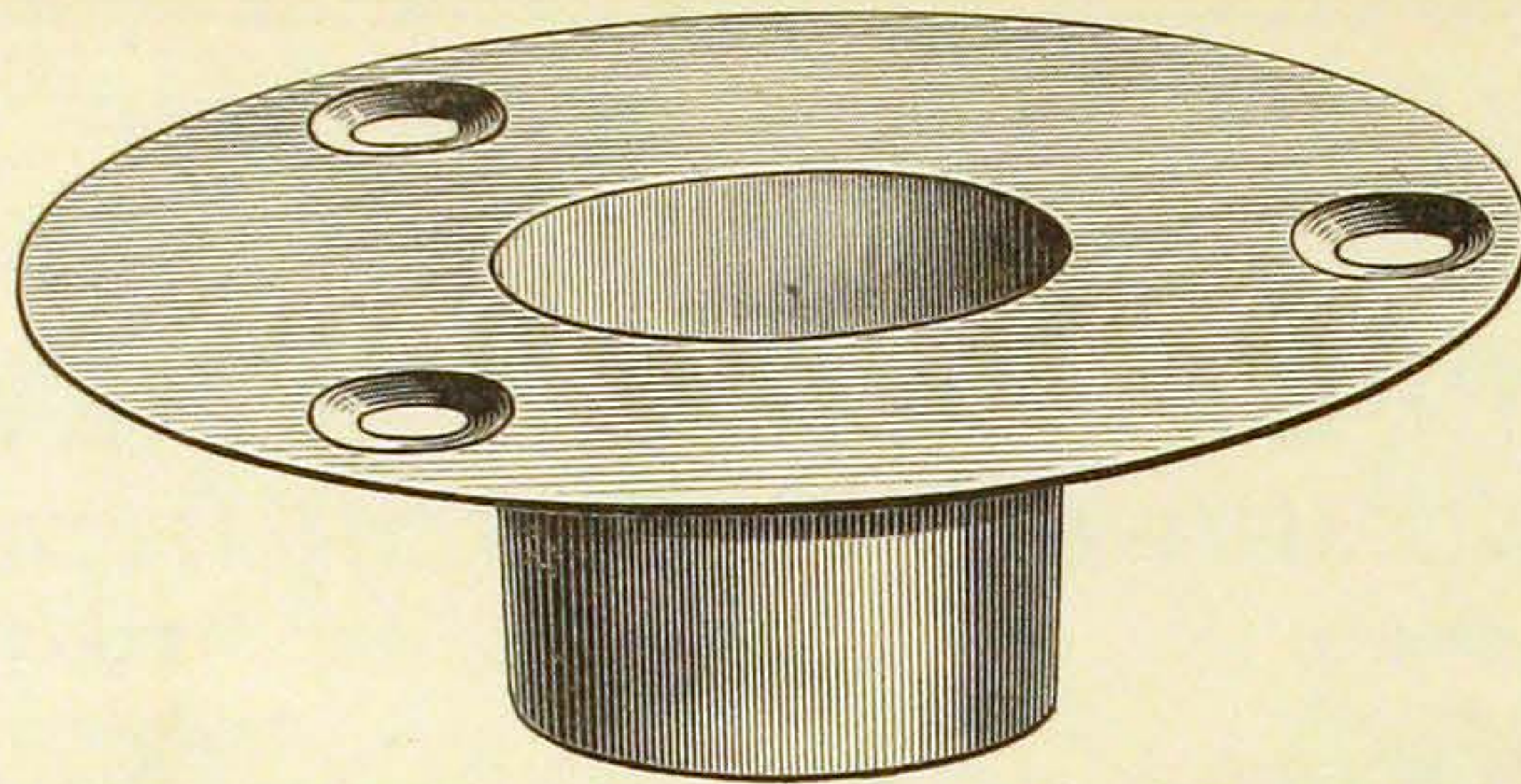
Fig. 770.



Finished.



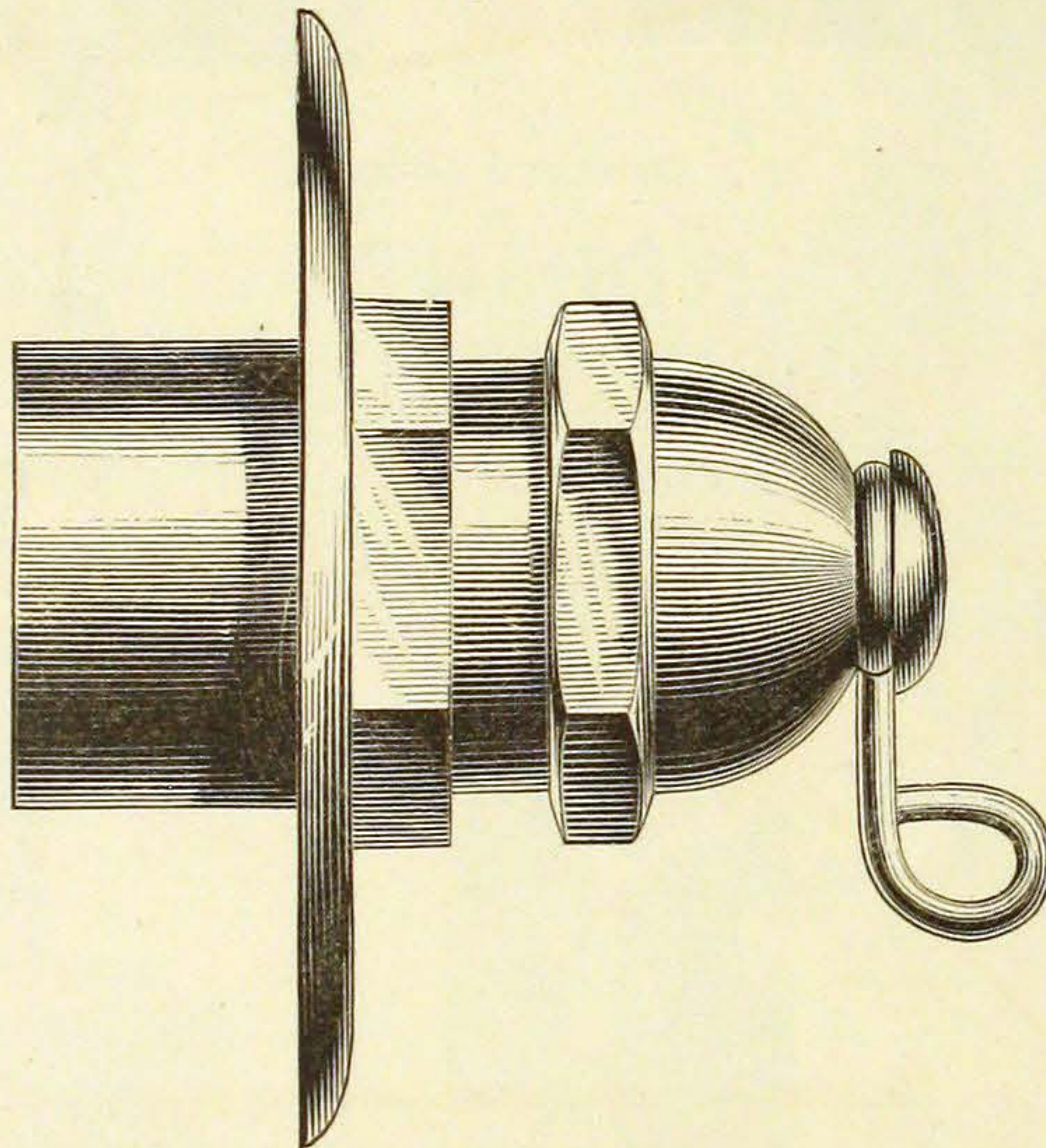
Fig. 771.



HOUSE CONNECTION.

With Flange and Cap. For Lead or Iron Pipe.

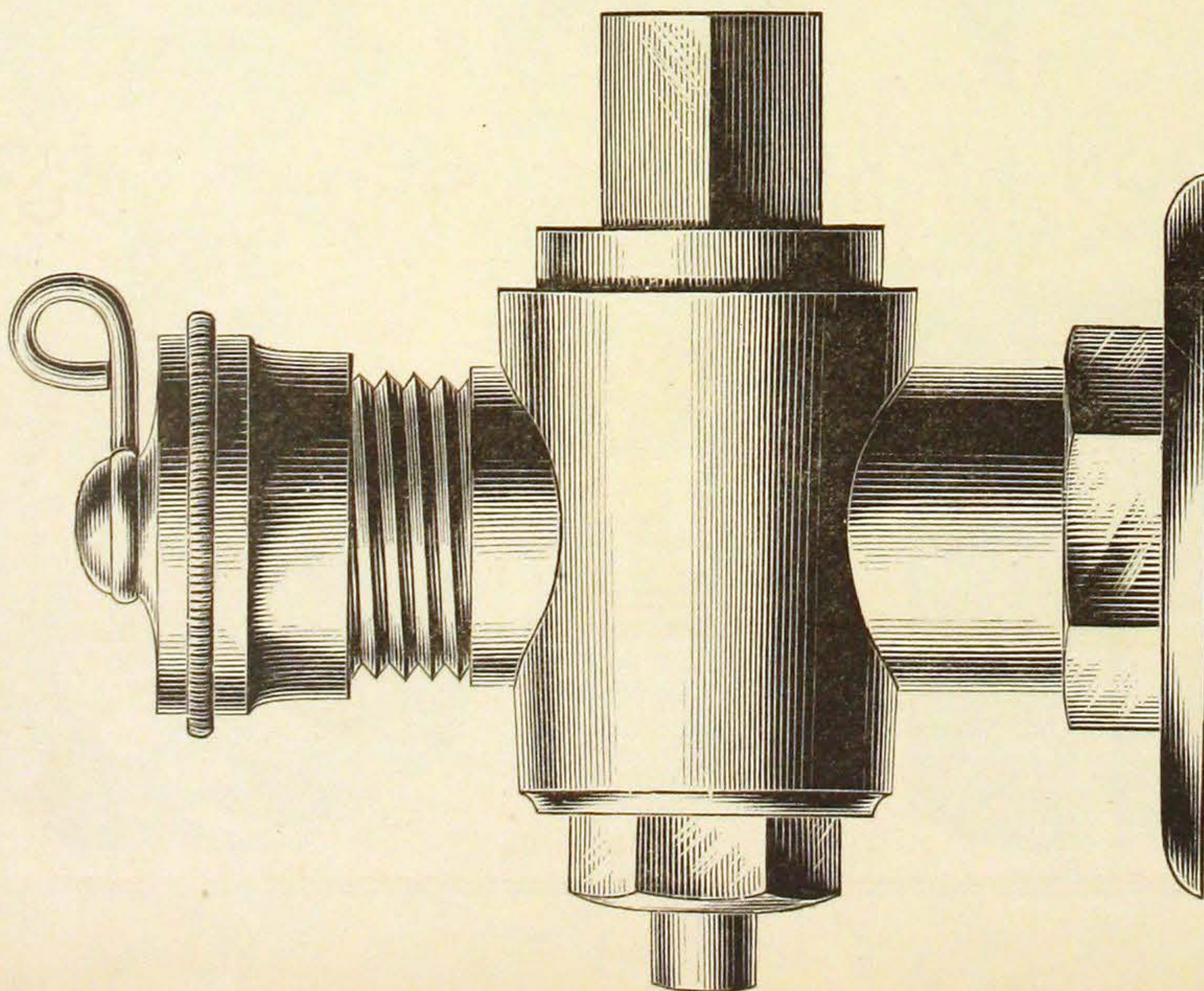
Fig. 772.



SILL COCK.

For Lead or Iron Pipe.

Fig. 773.





STREET WASHER SCREWS.  
FOR LEAD PIPE. FOR IRON PIPE.

Fig. 774.

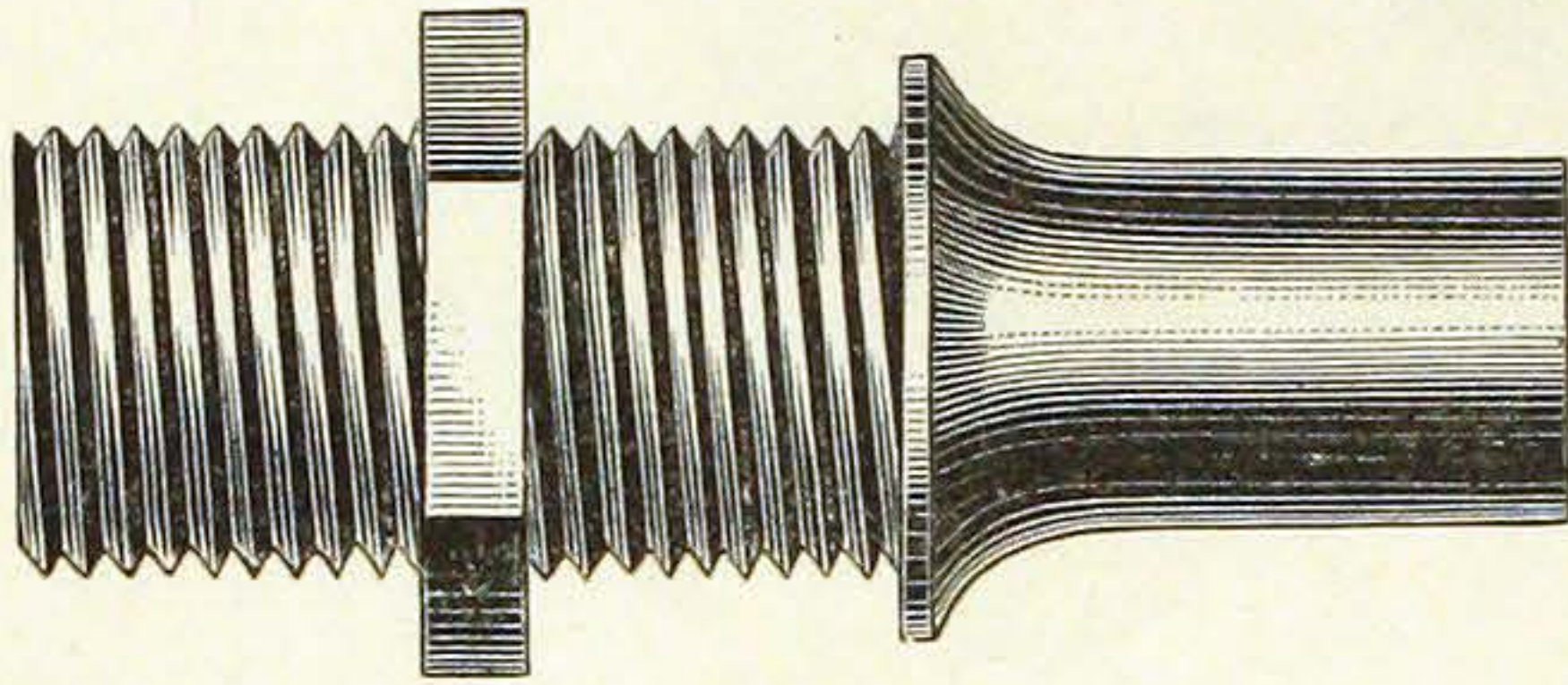
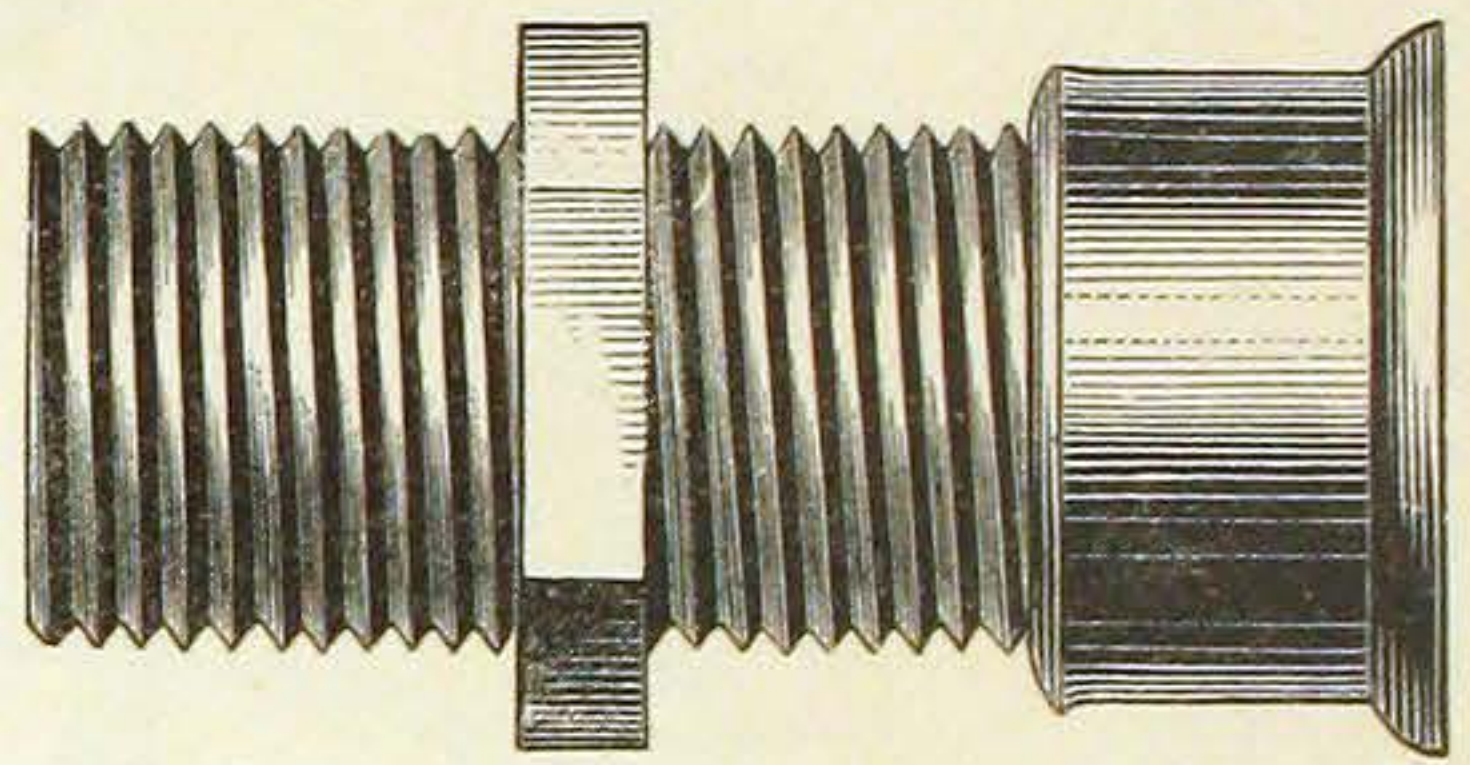


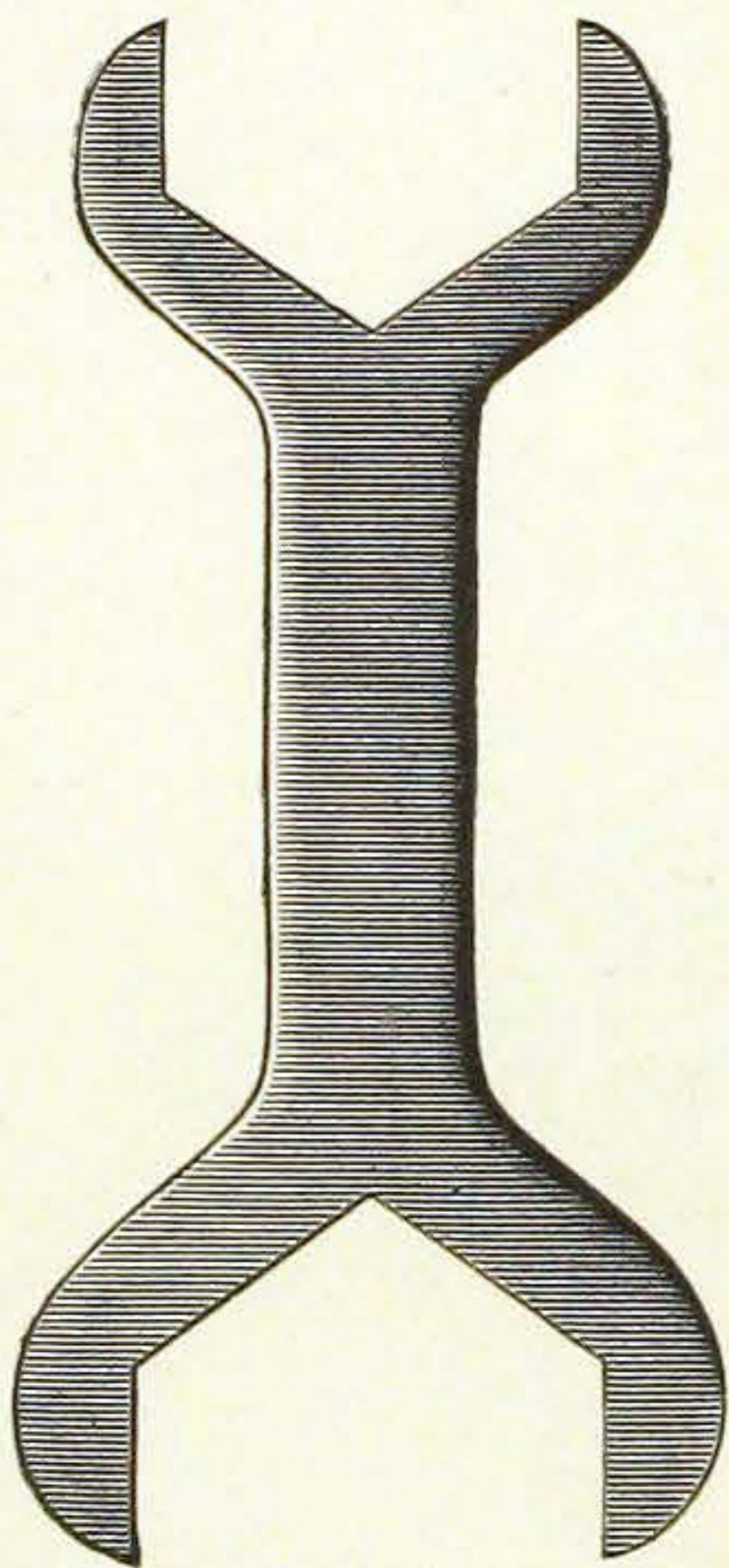
Fig. 775.



Short and Long.

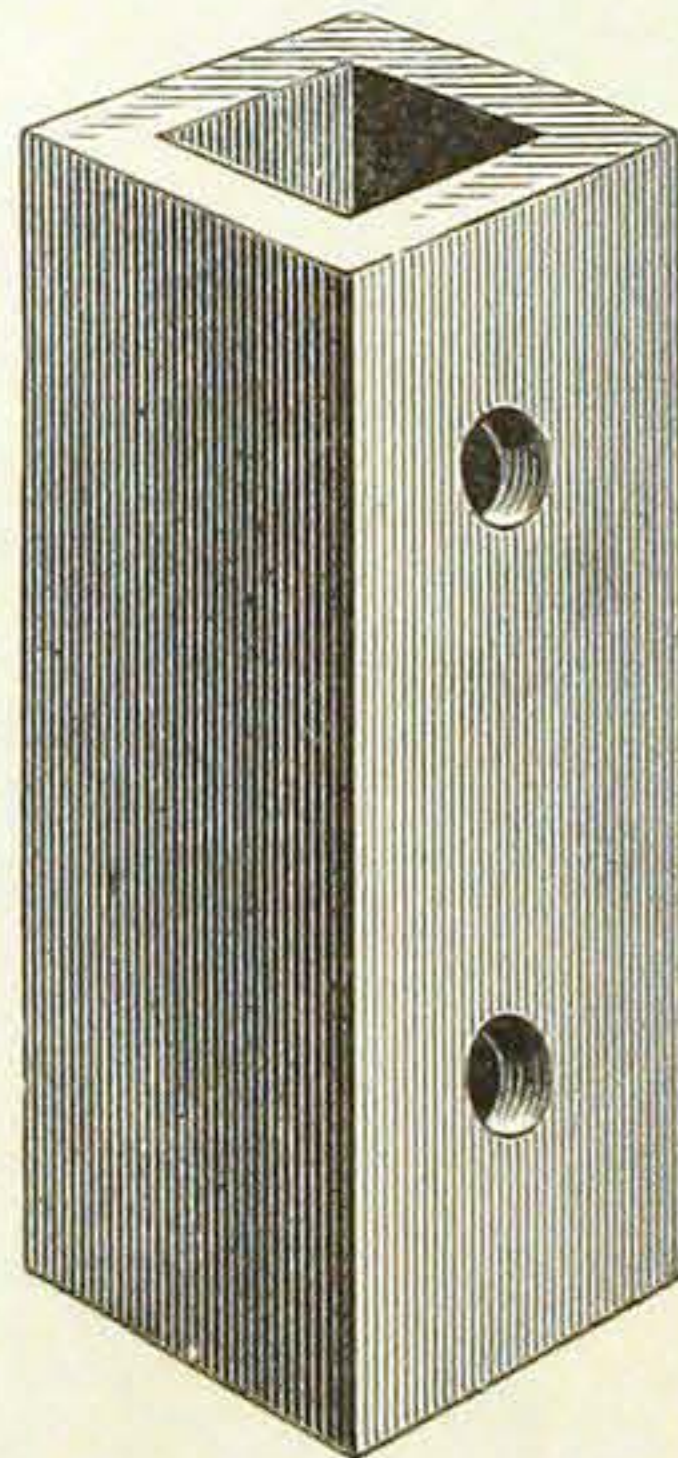
PUMP  
WRENCH.

Fig. 776.



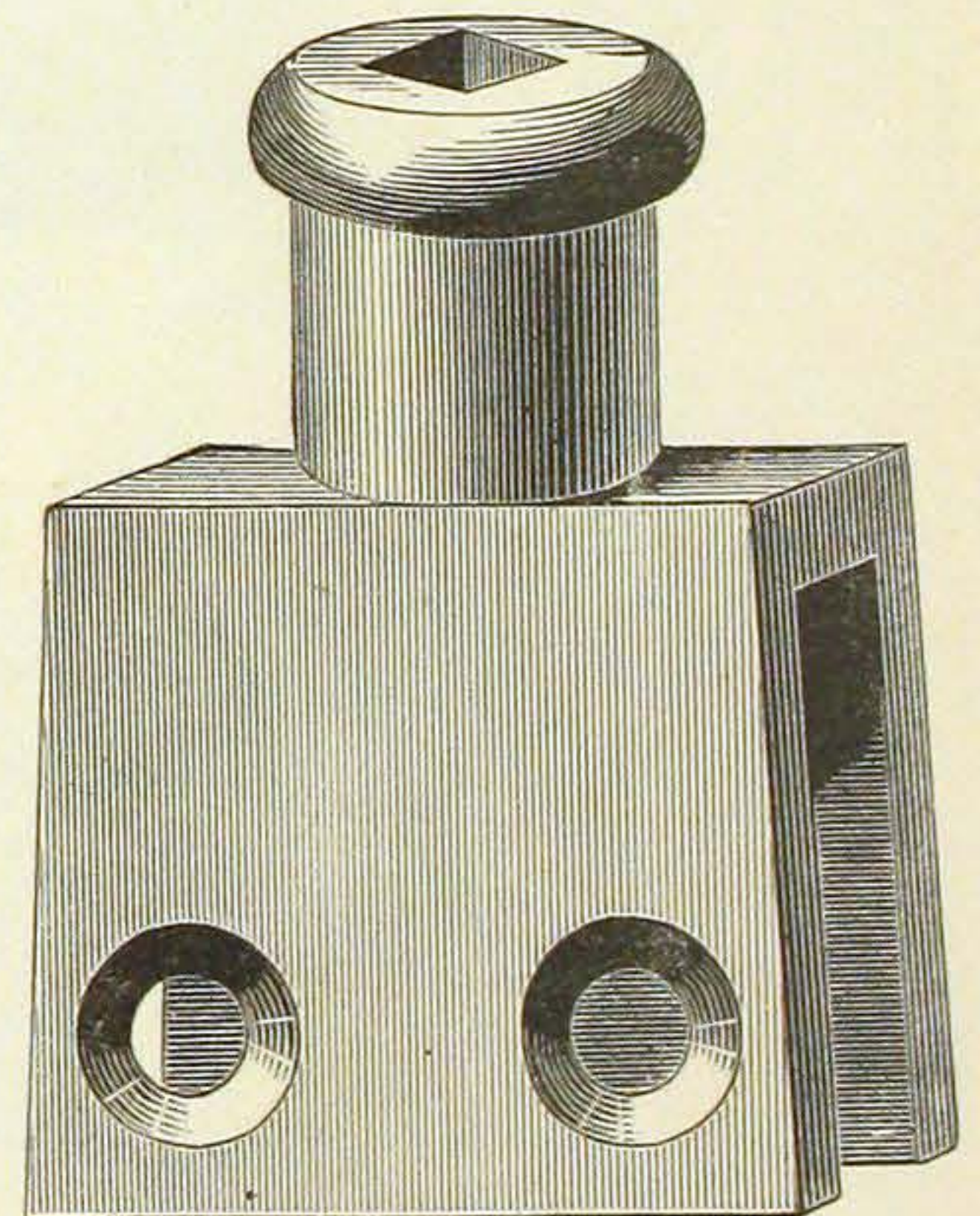
HYDRANT  
SOCKET.

Fig. 777.



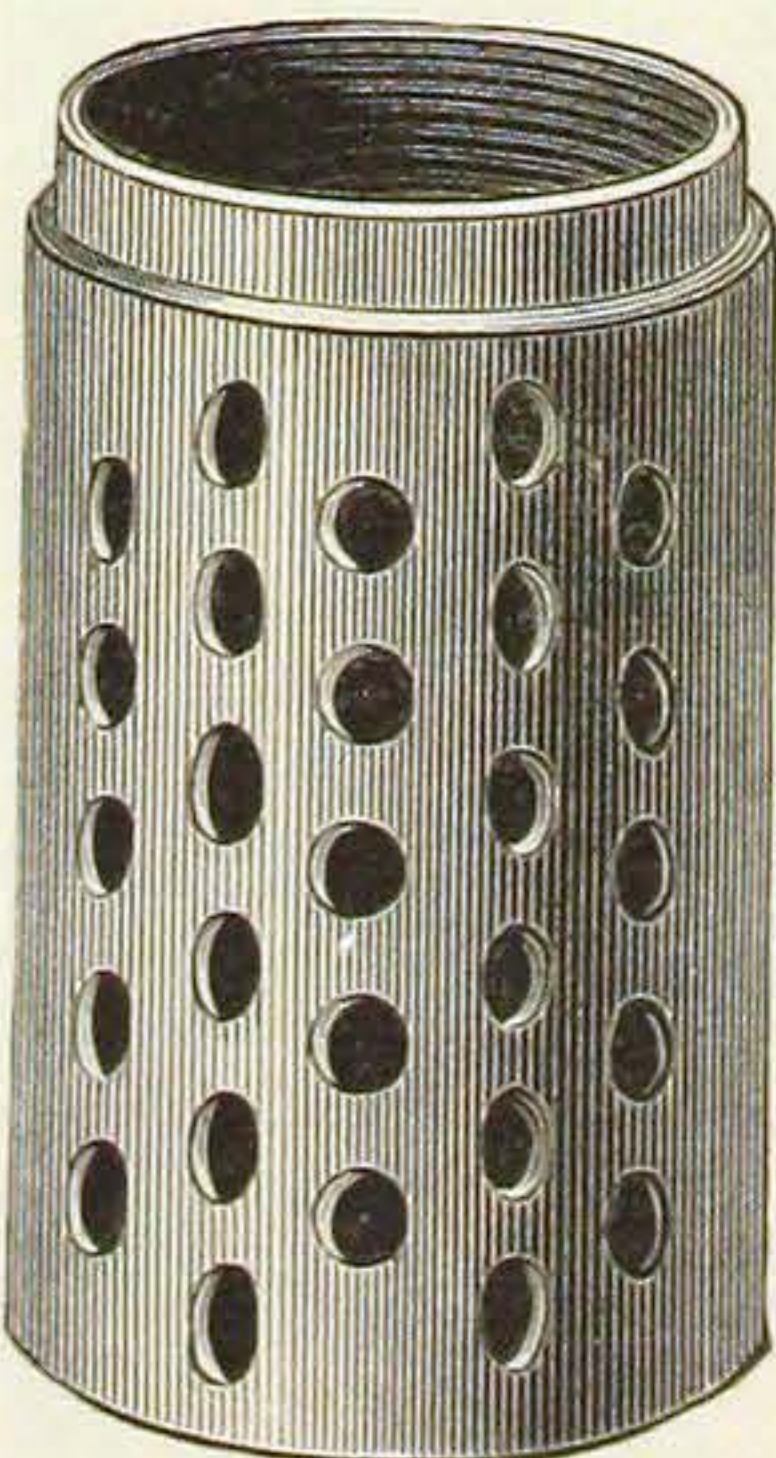
HYDRANT  
CLAMP.

Fig. 778.



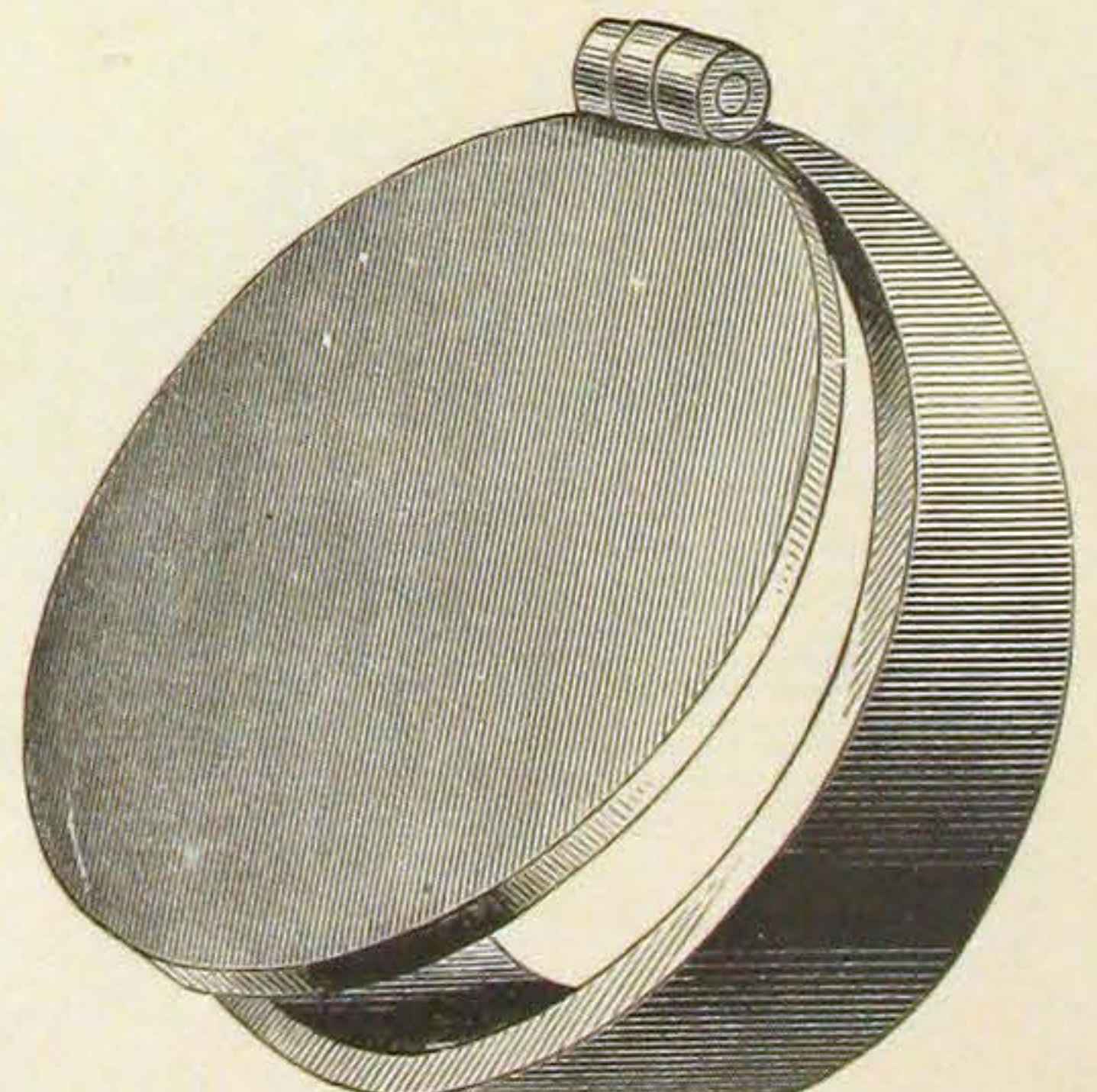
SUCTION BASKET.

Fig. 779.



SEWER VALVE.

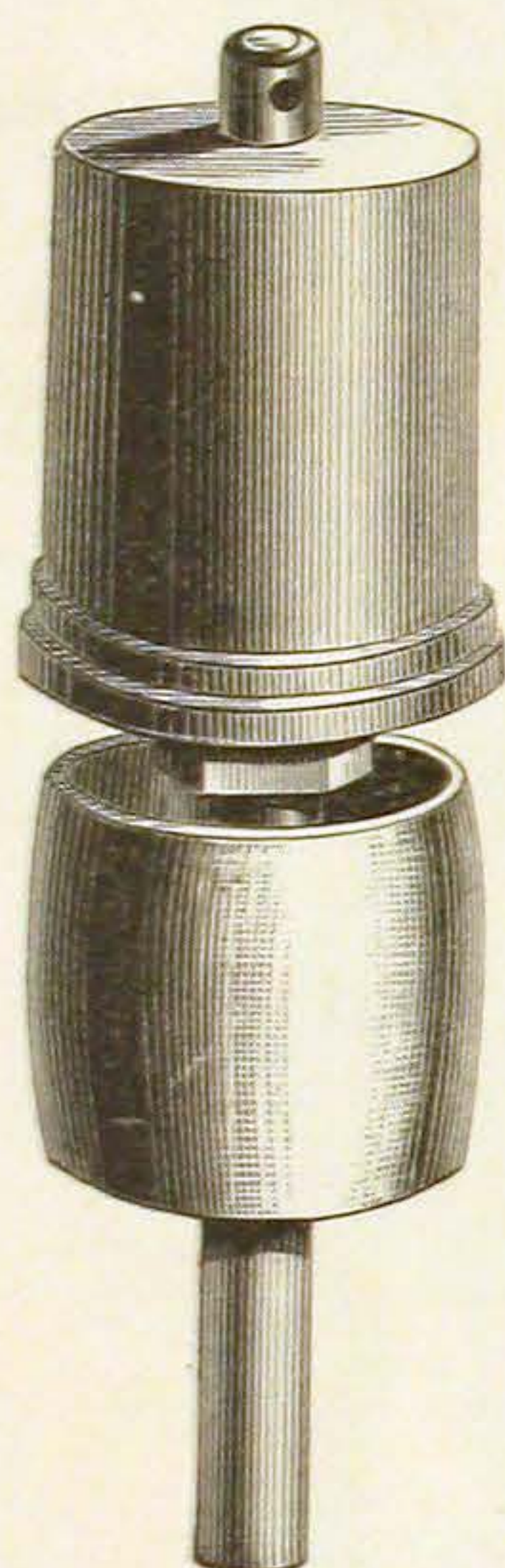
Fig. 780.





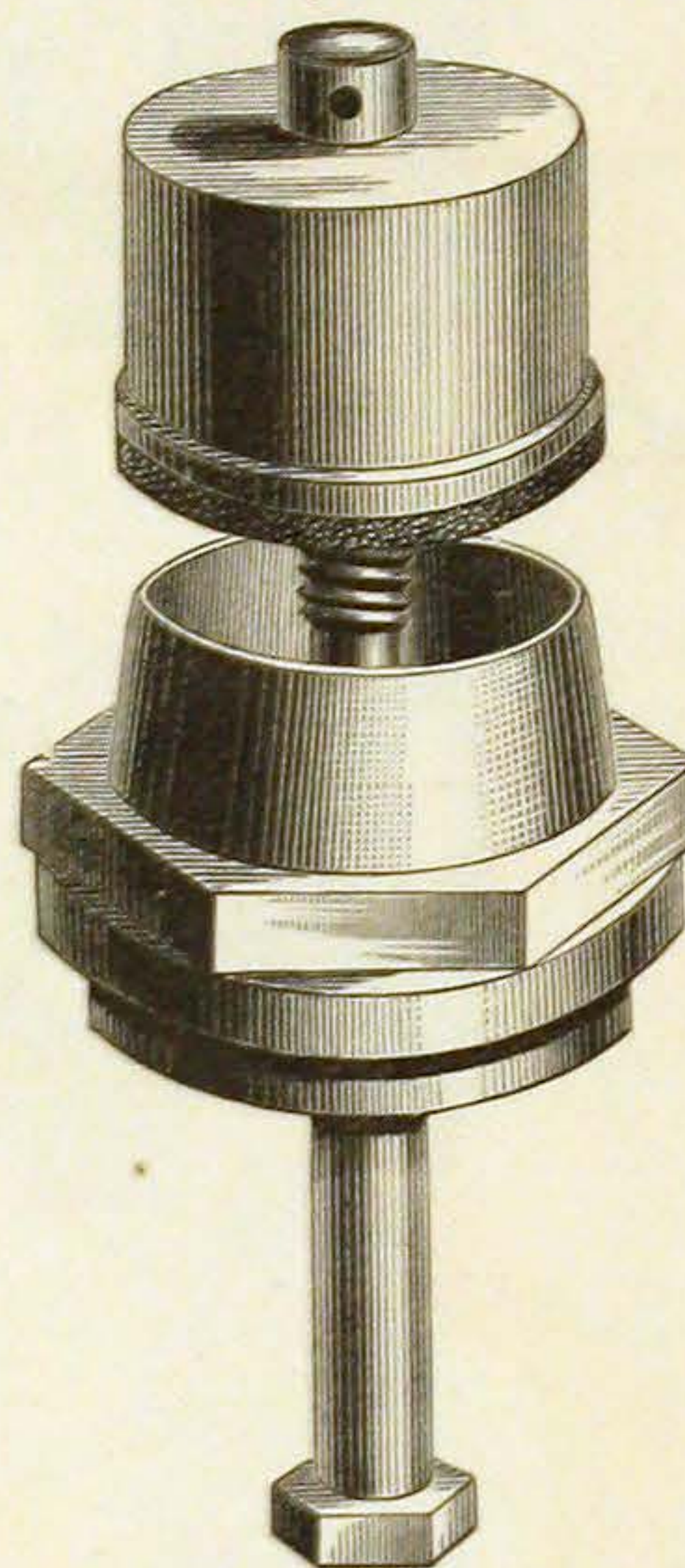
# TANK VALVE.

Fig. 781.



# CLOSET VALVES. NEW PATTERN.

Fig. 782.



# VACUUM VALVES. FOR COPPER BOILERS. WITH COUPLING.

Fig. 783.

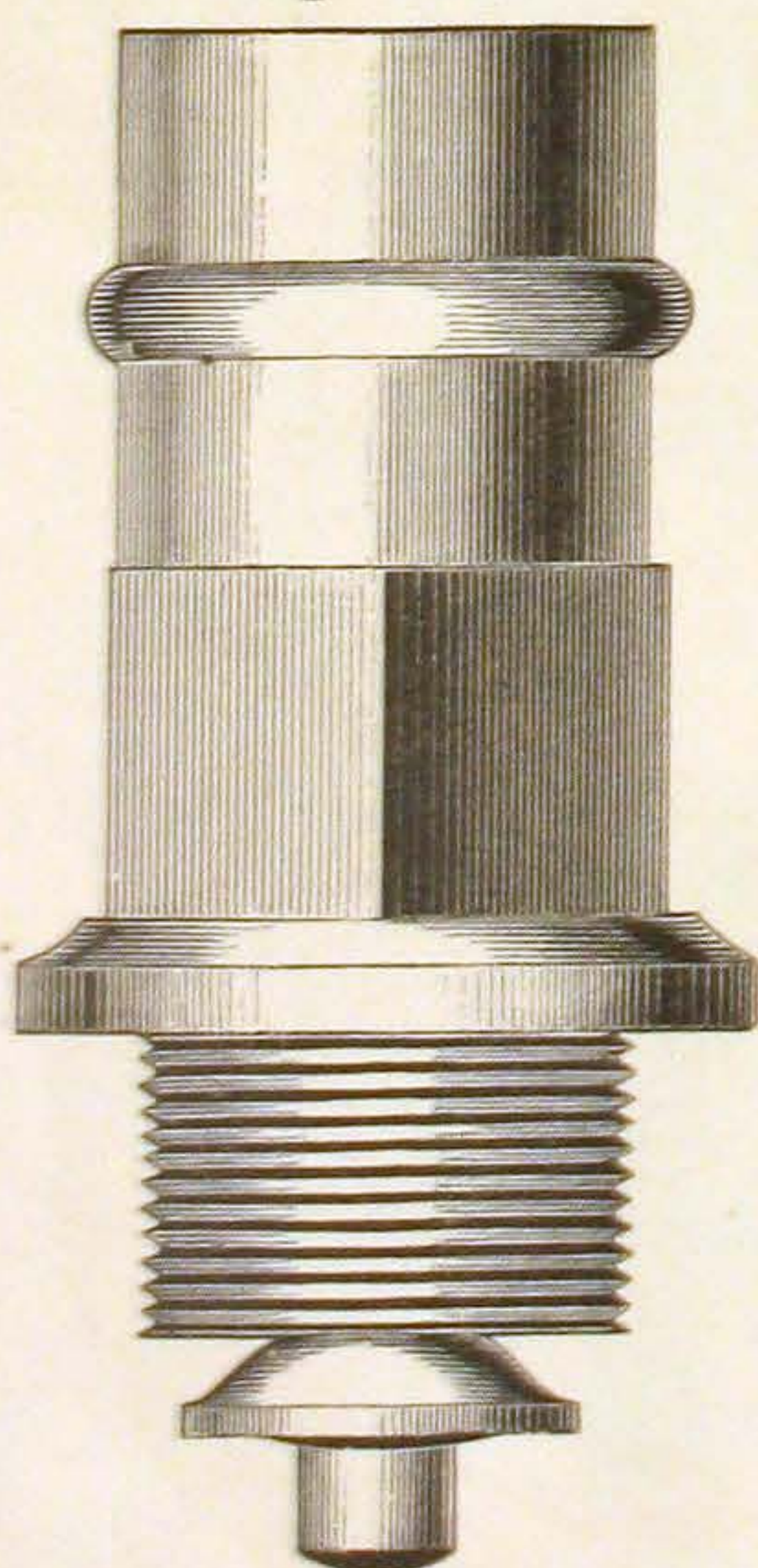
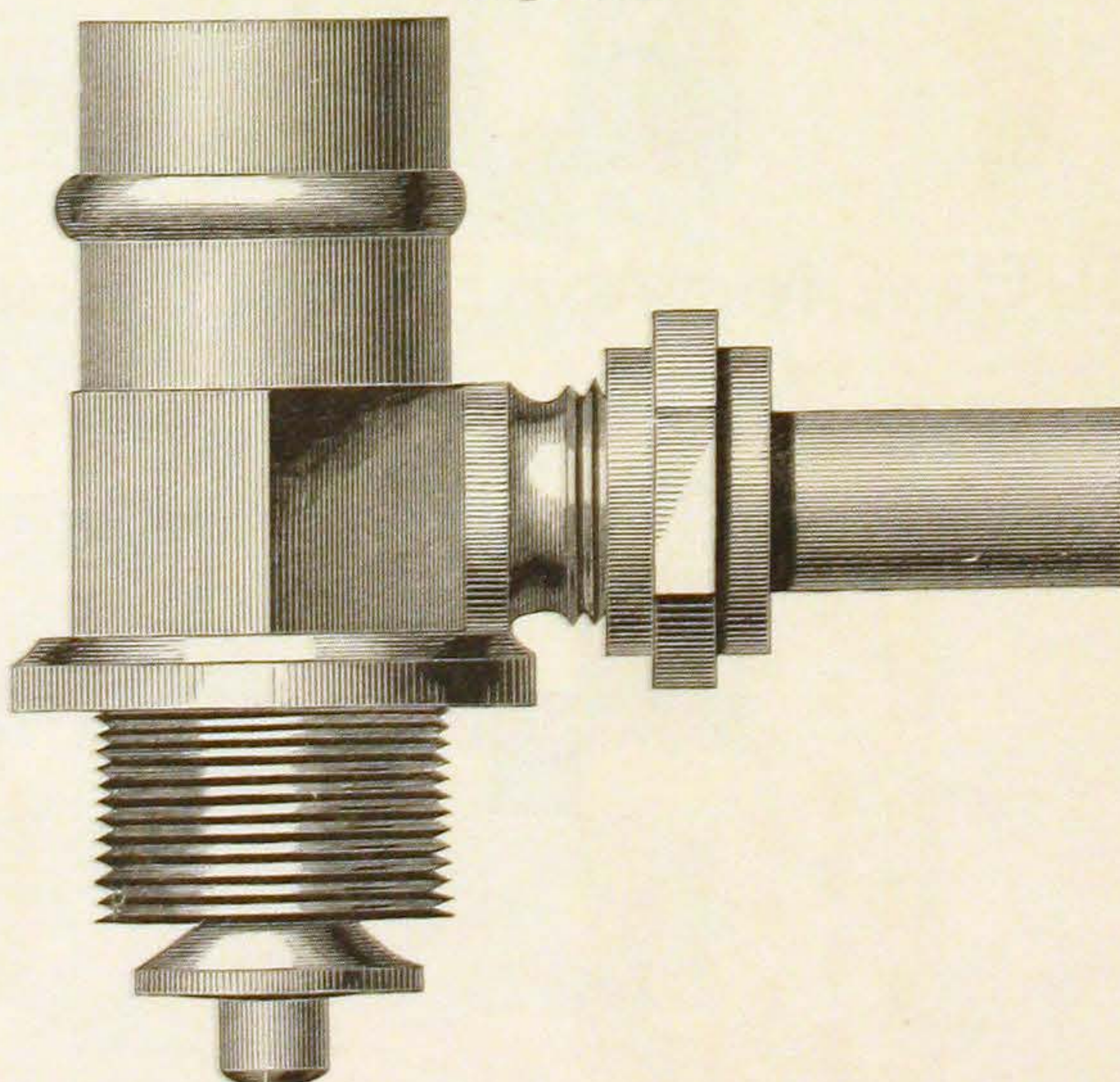


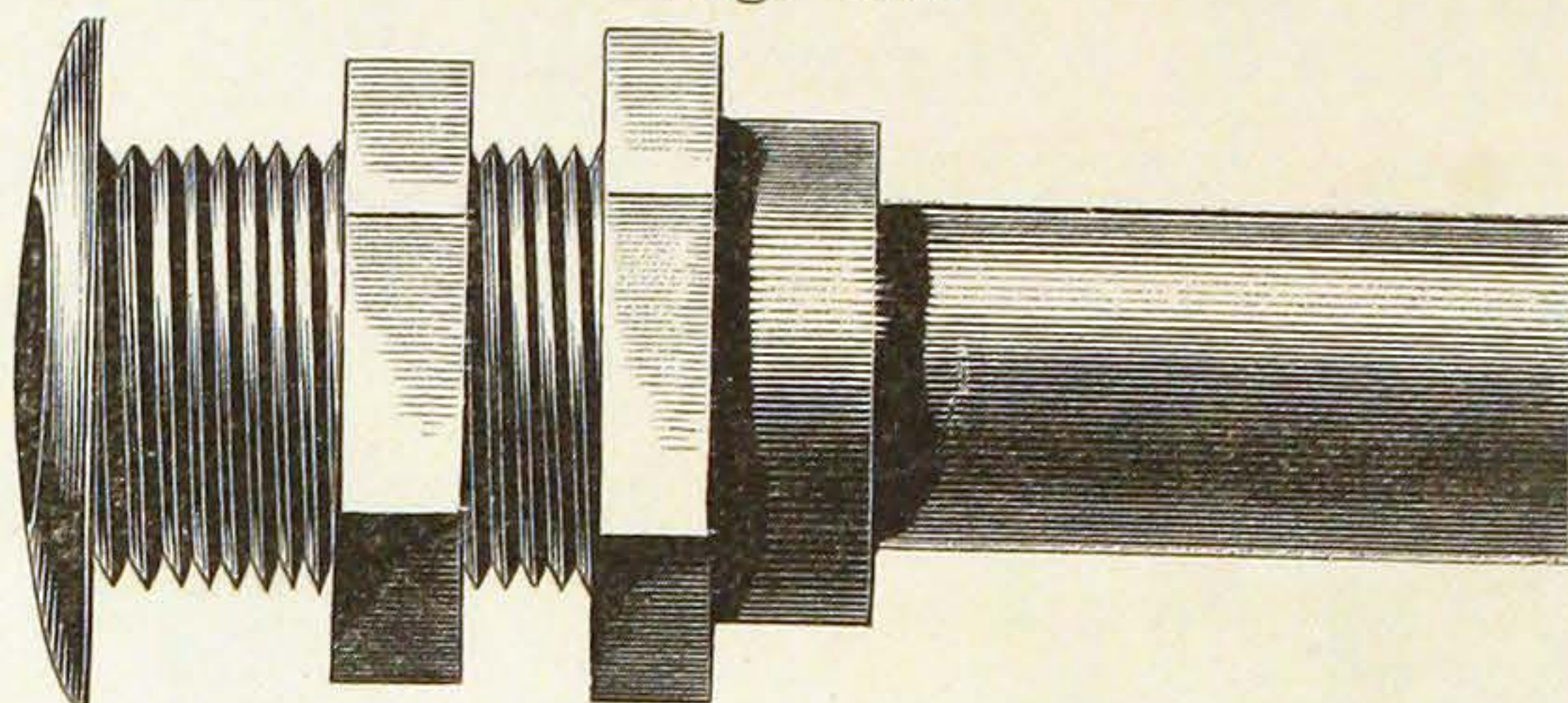
Fig. 784.





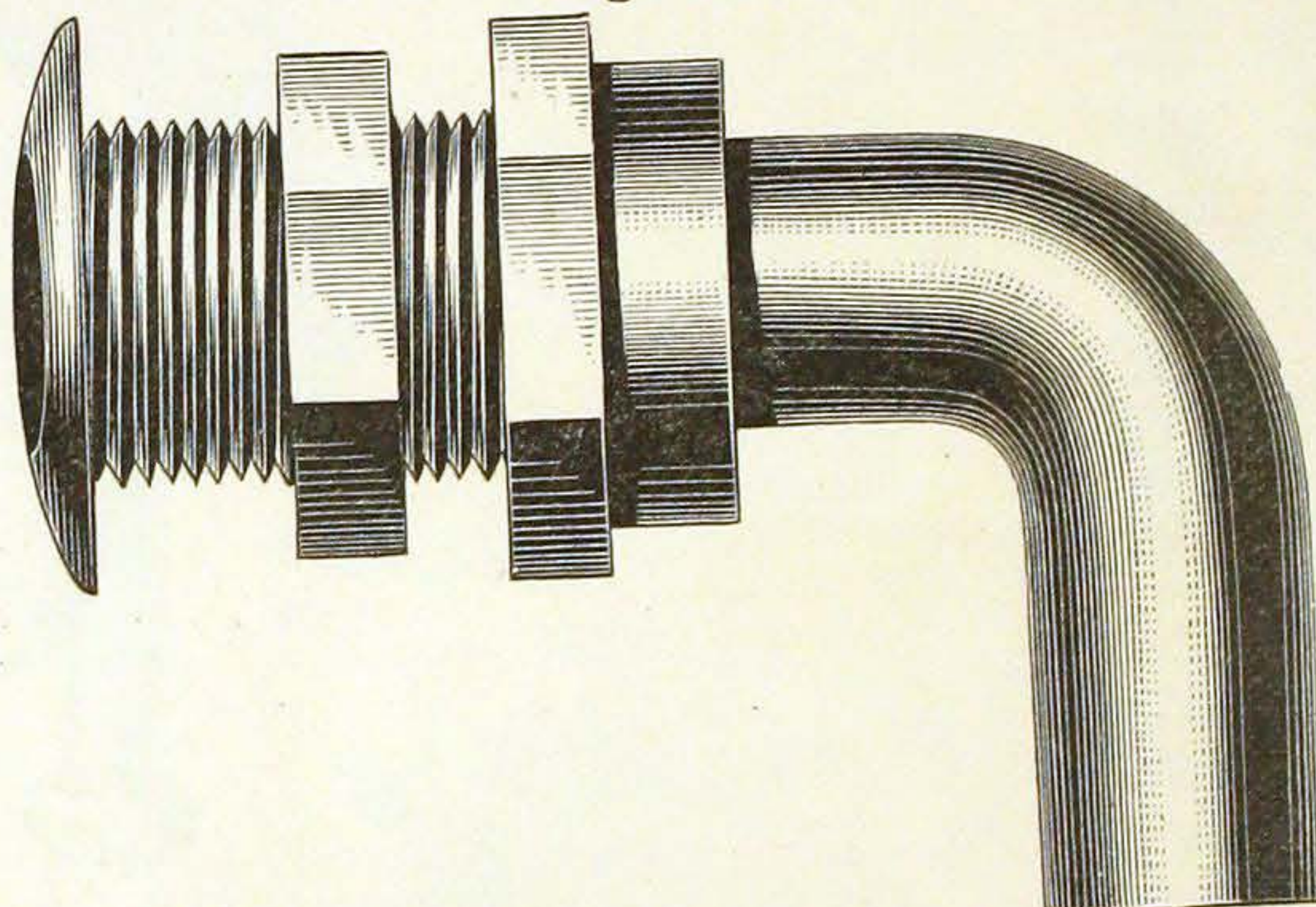
BOILER COUPLINGS.  
STRAIGHT. FOR COPPER BOILERS.

Fig. 785.



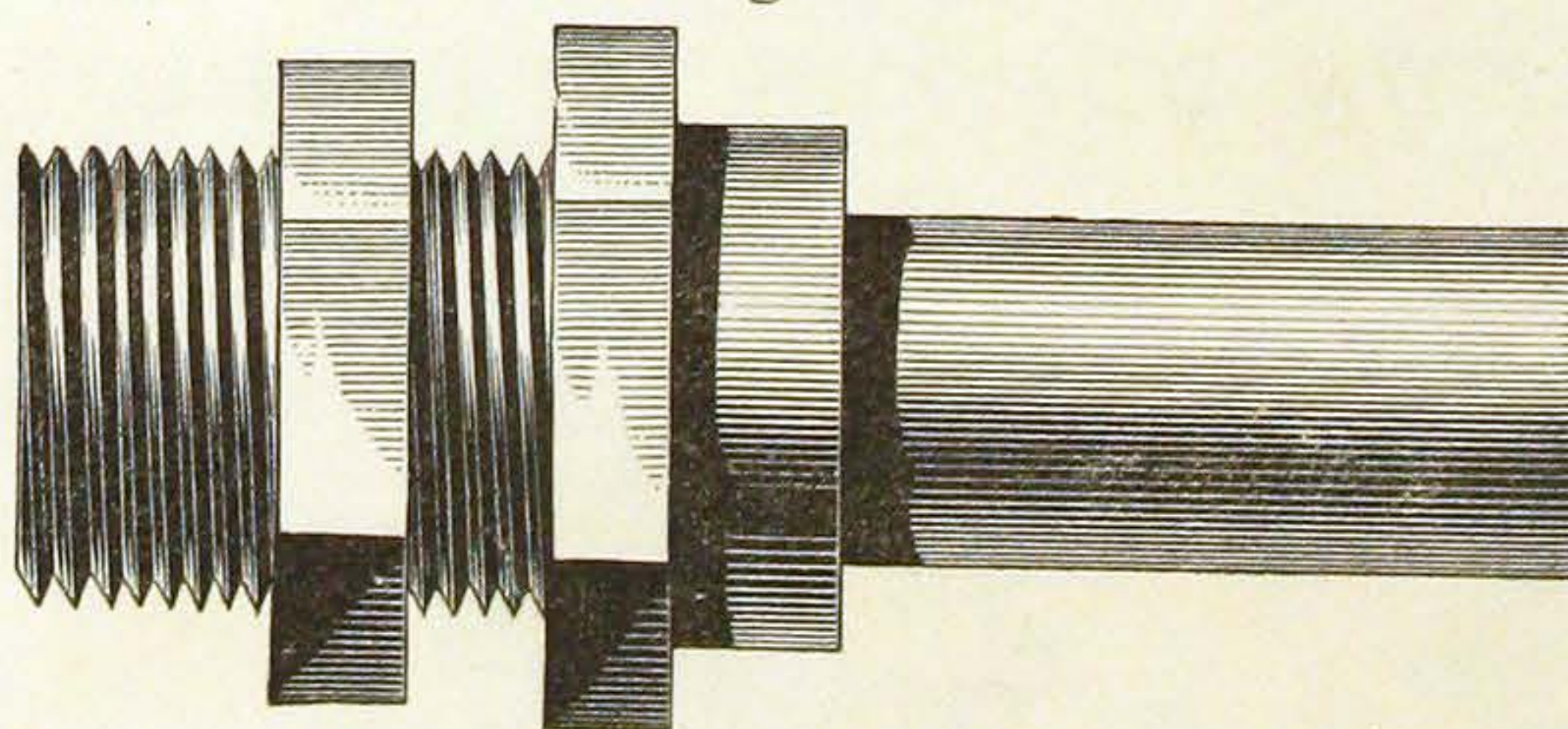
CROOKED. FOR COPPER BOILERS.

Fig. 786.



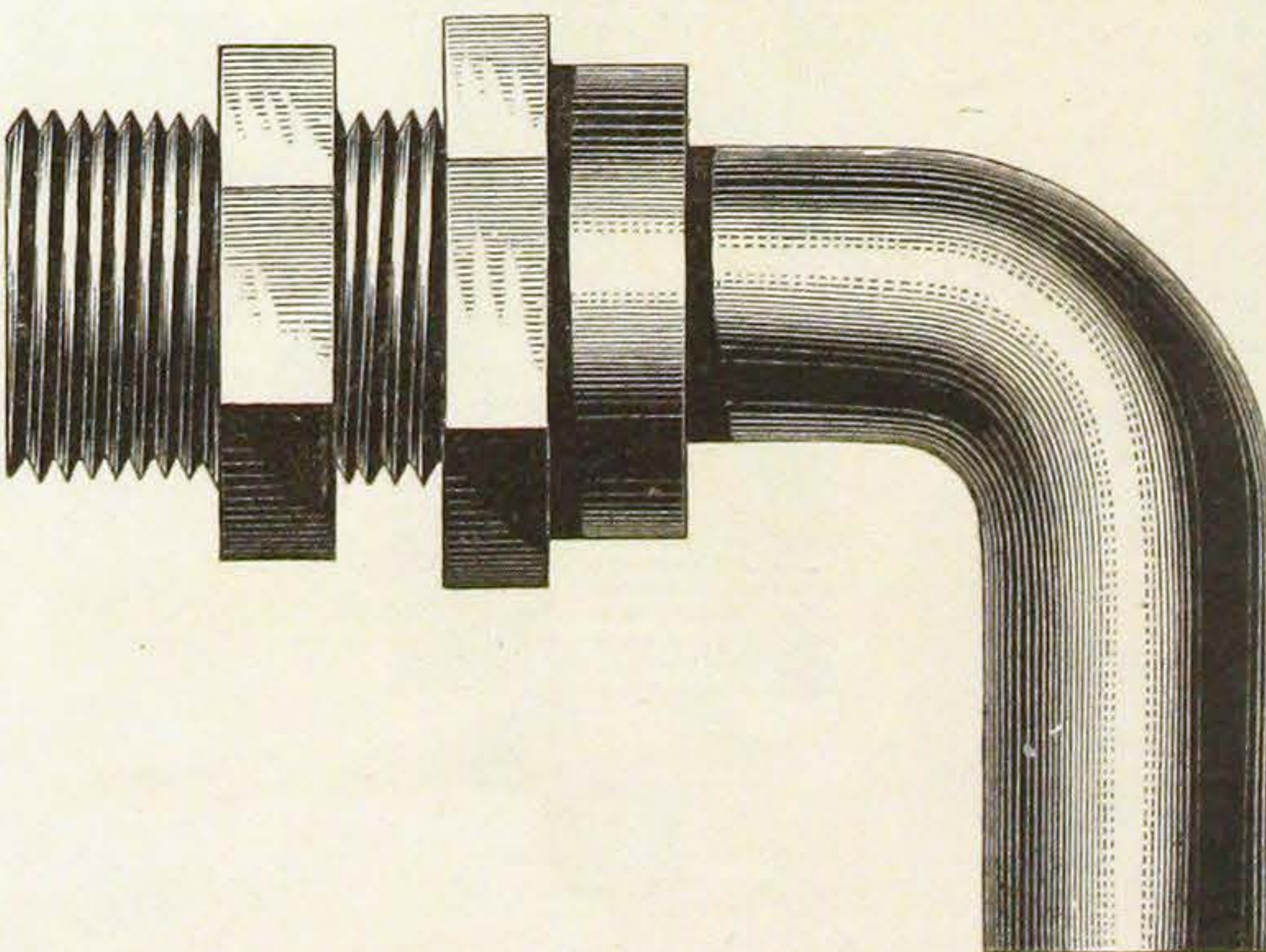
STRAIGHT. FOR IRON BOILERS.

Fig. 787.



CROOKED. FOR IRON BOILERS.

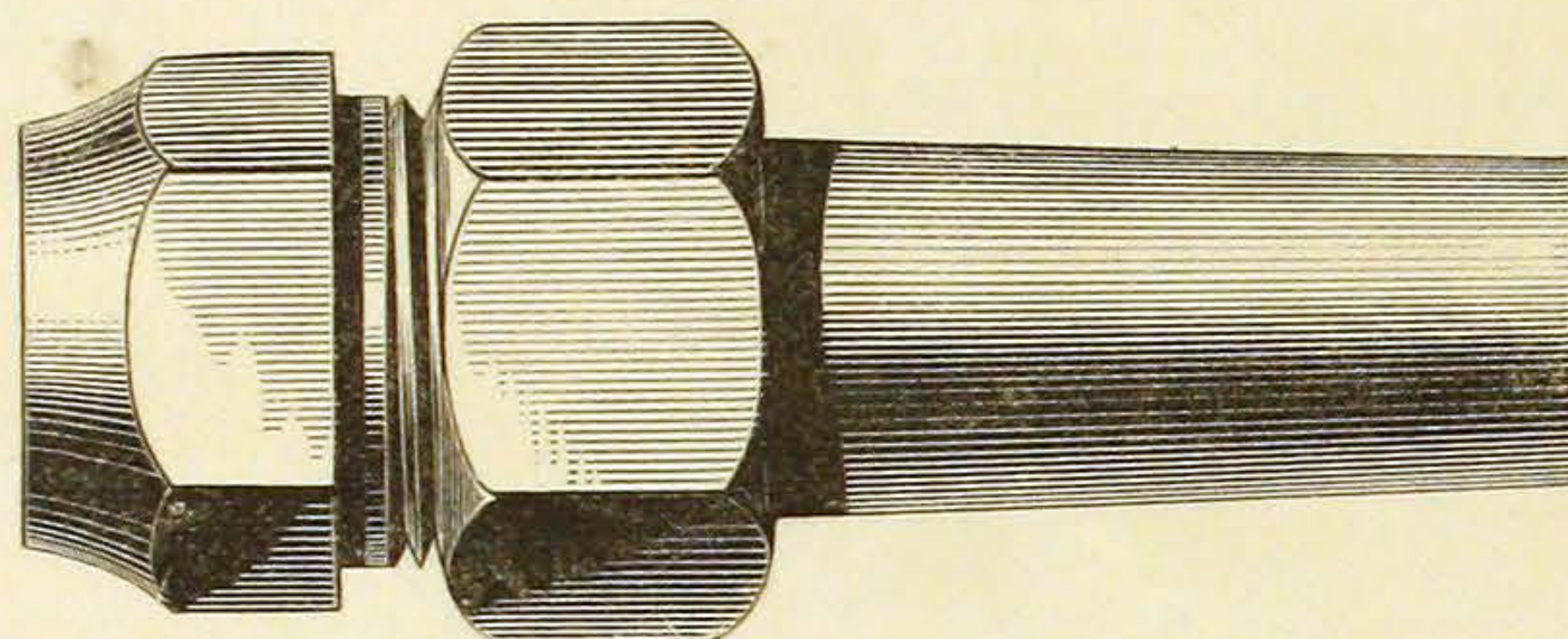
Fig. 788.





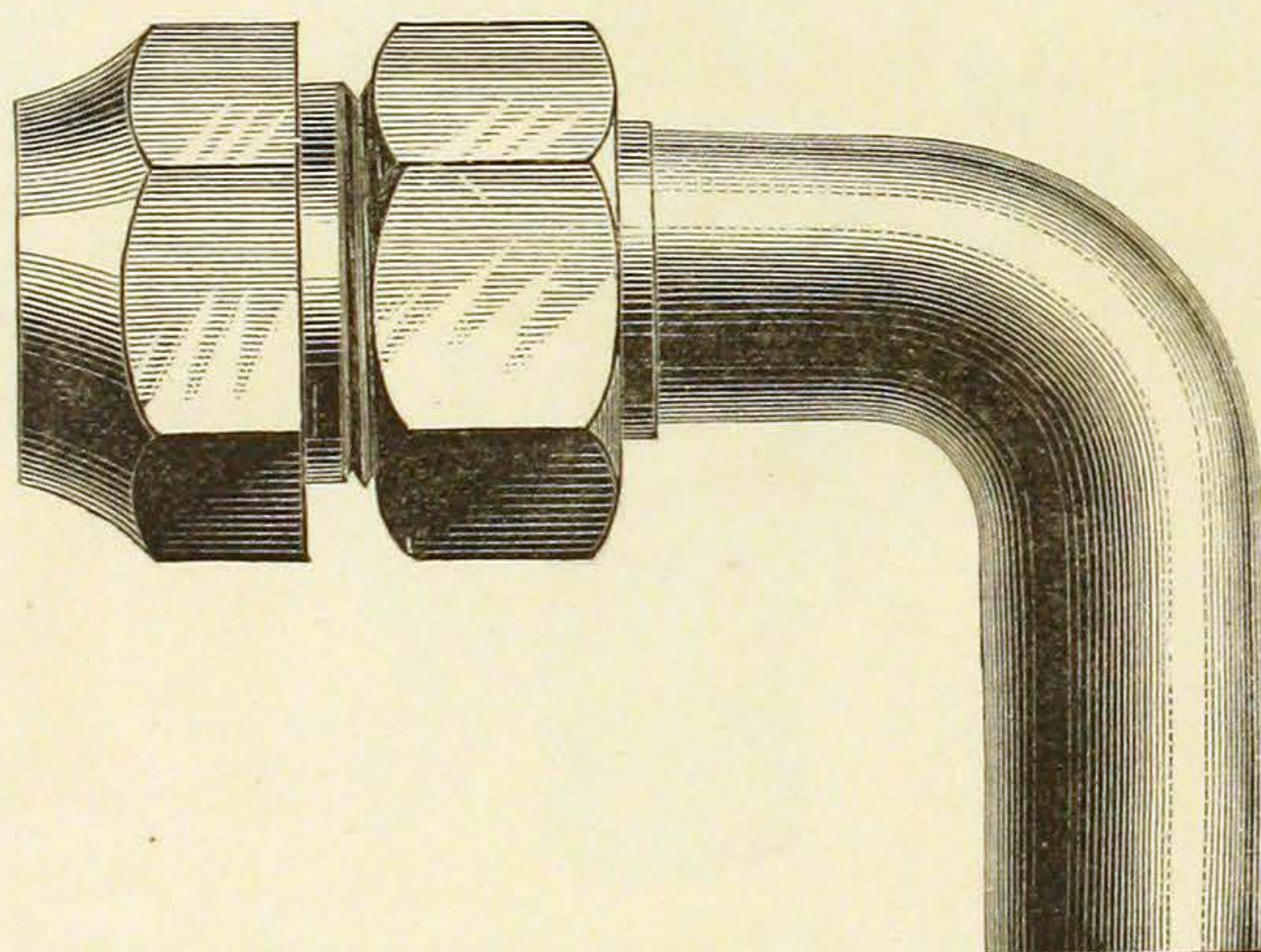
STRAIGHT WATER BACK COUPLING.

Fig. 789.



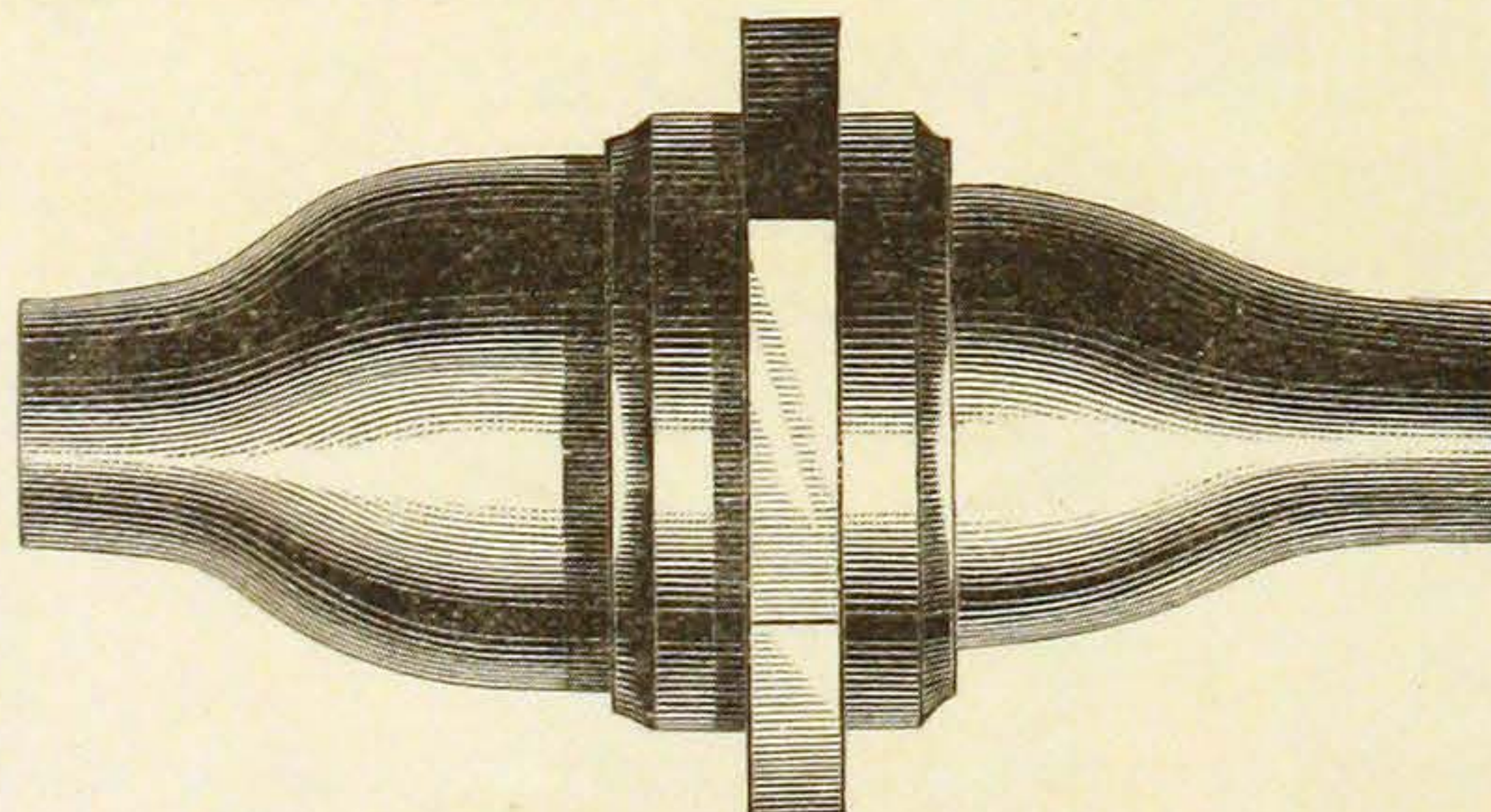
CROOKED WATER BACK COUPLING.

Fig. 790.



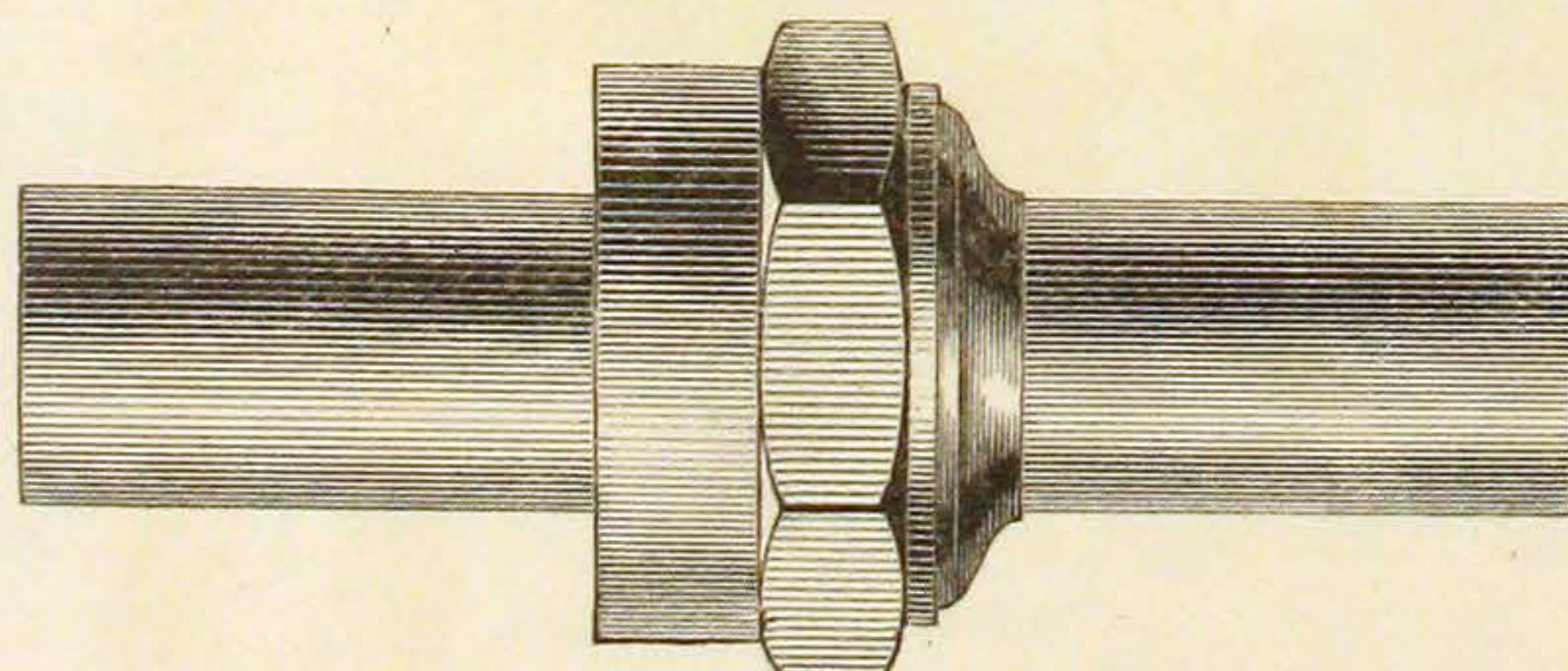
VALVE COUPLING.

Fig. 791.



PLAIN COUPLING.

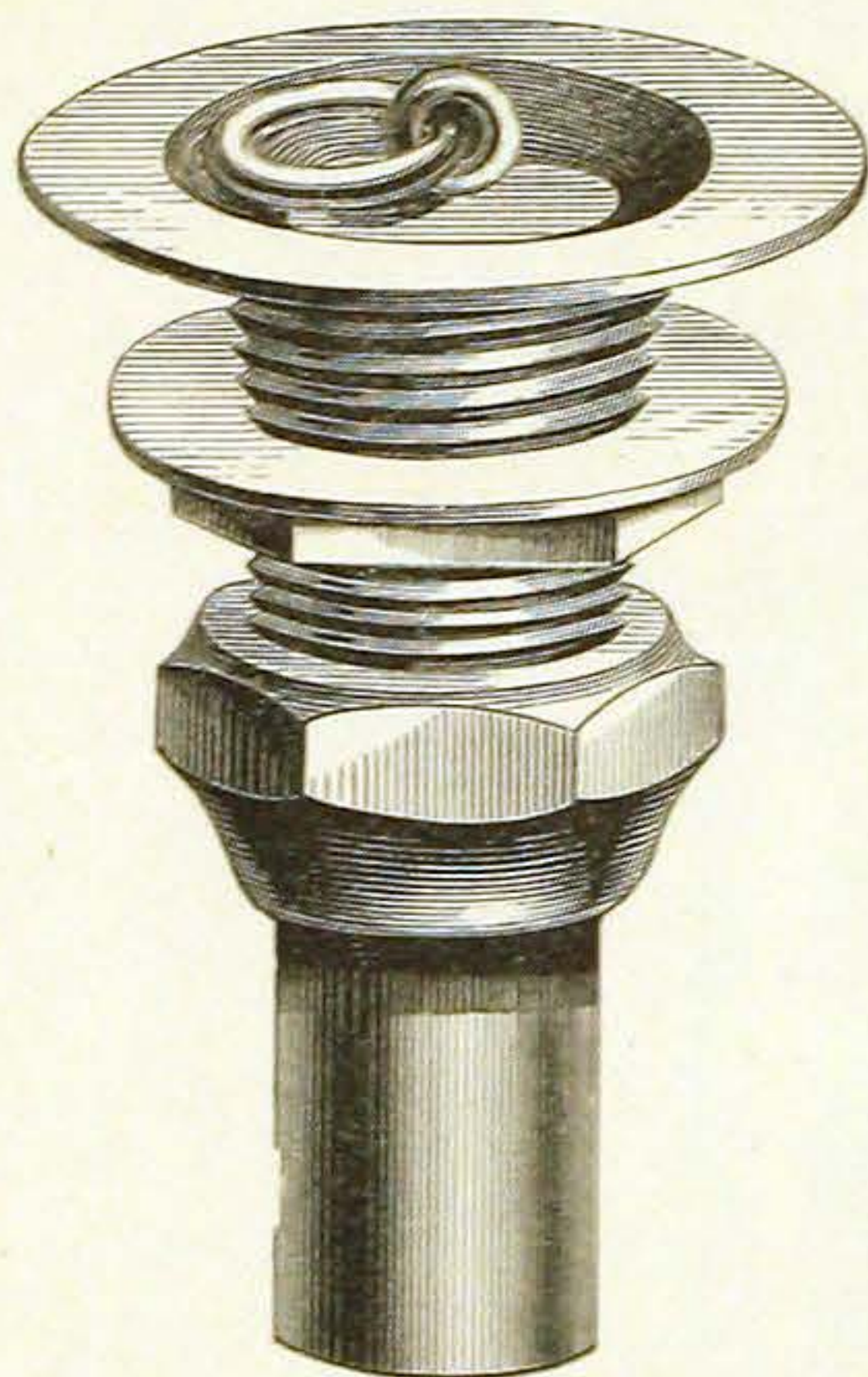
Fig. 792.





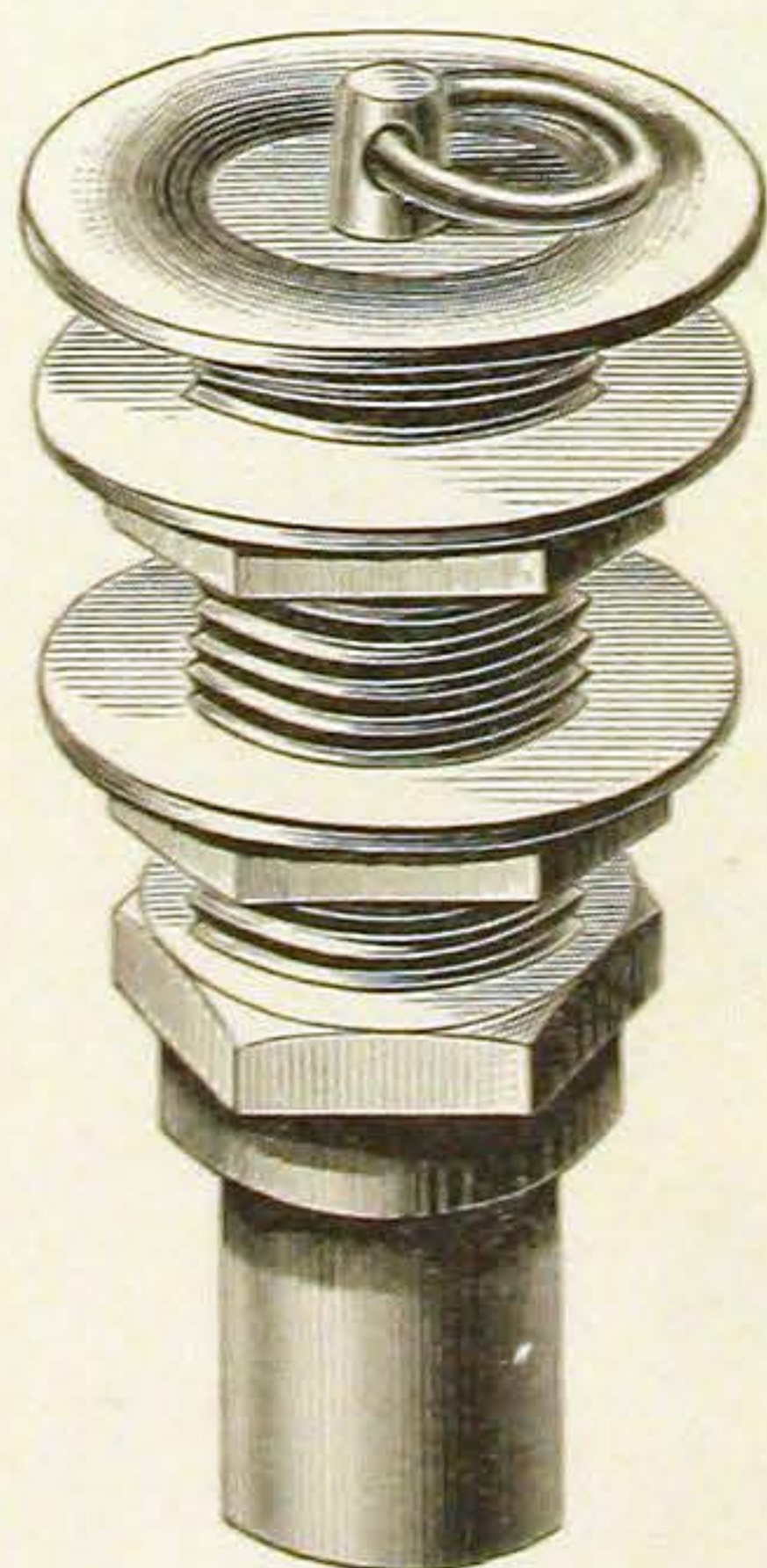
Basin Plugs and Couplings.  
COMMON  
OVERFLOW.

Fig. 793.



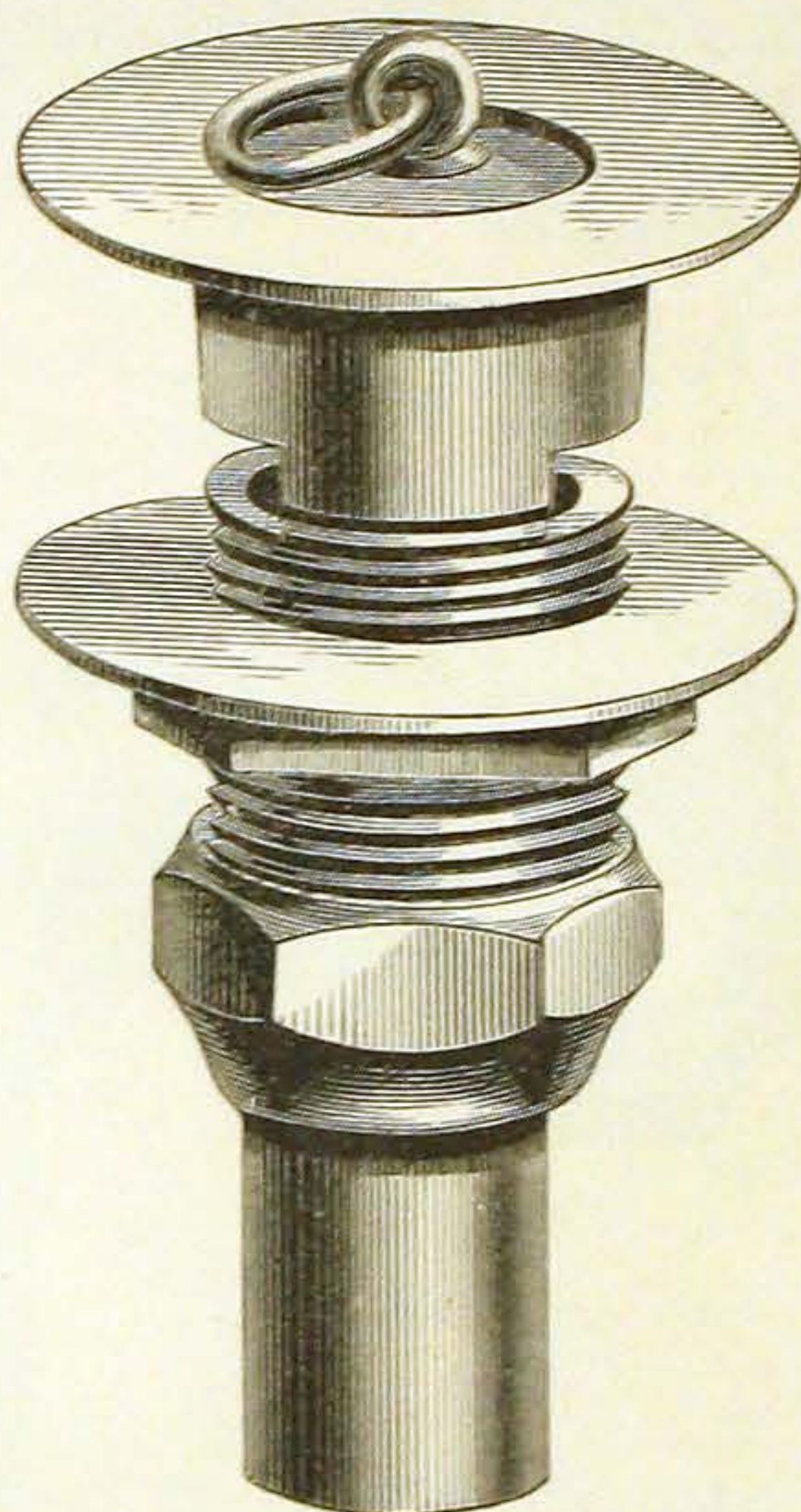
Plug for Iron  
Wash Stand.

Fig. 796.



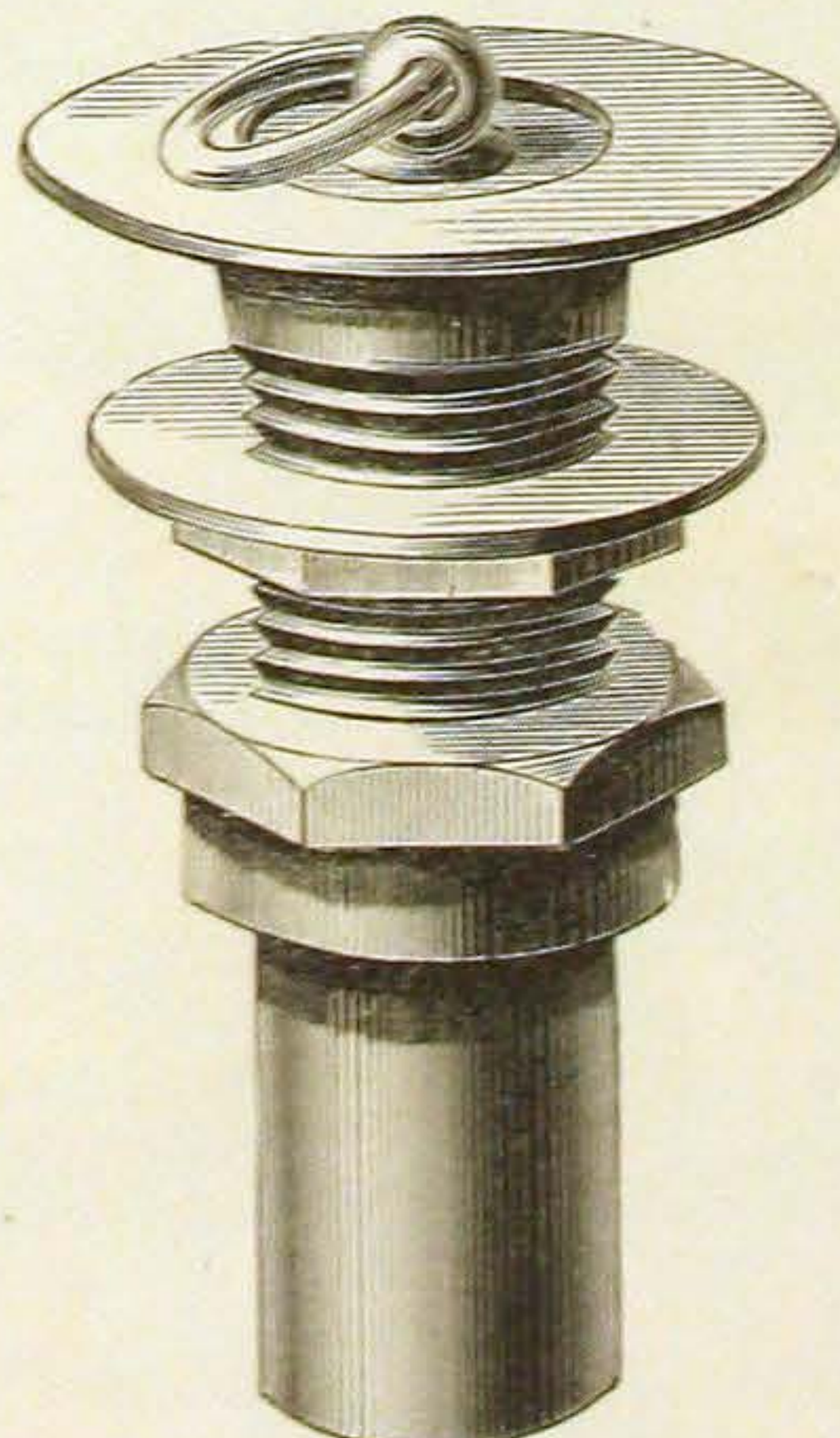
PATENT  
OVERFLOW.

Fig. 794.



Sink Plug.  
FOR SOAP STONE  
OR WOOD SINK.

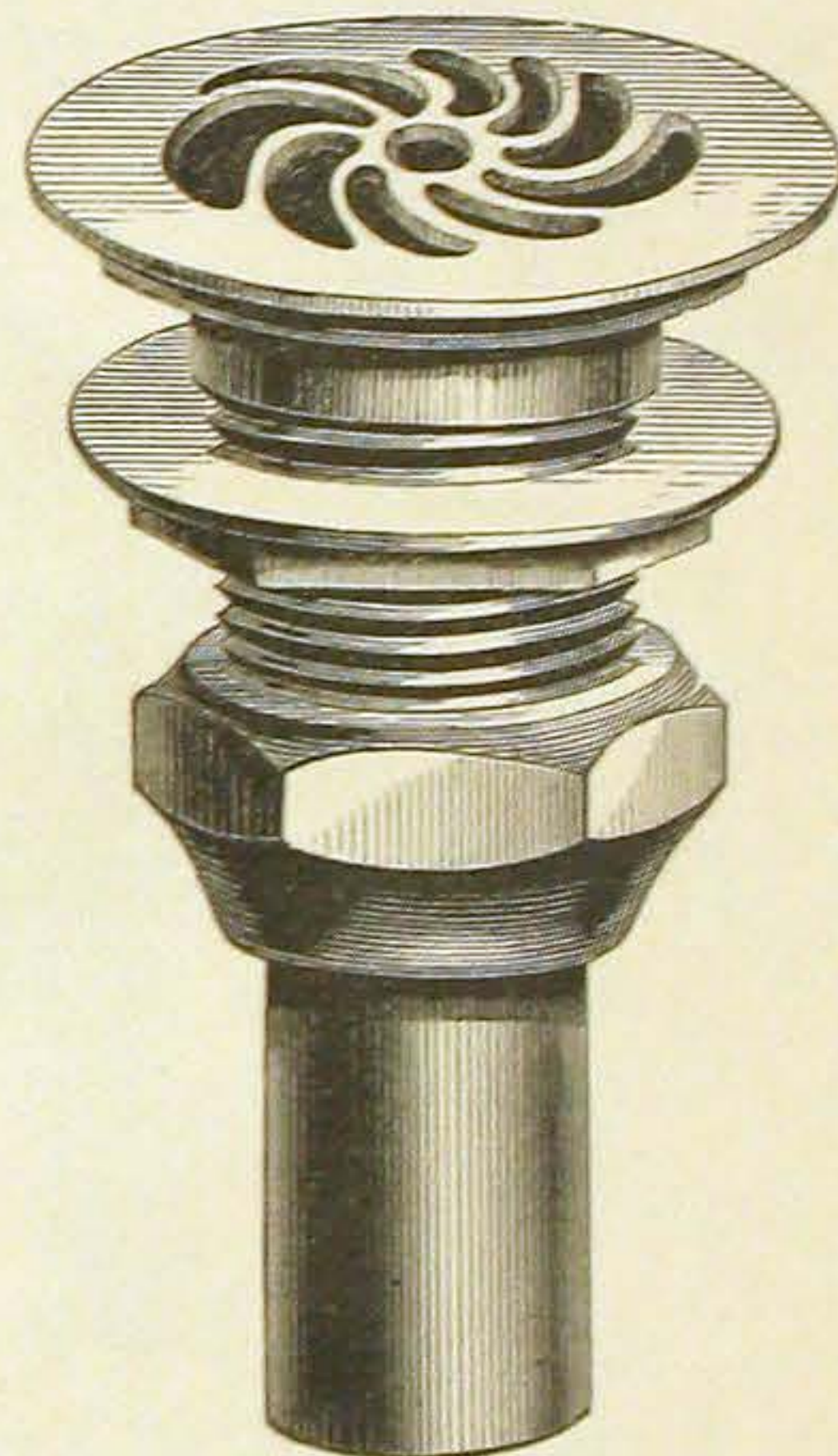
Fig. 797.



Finished and Plated.

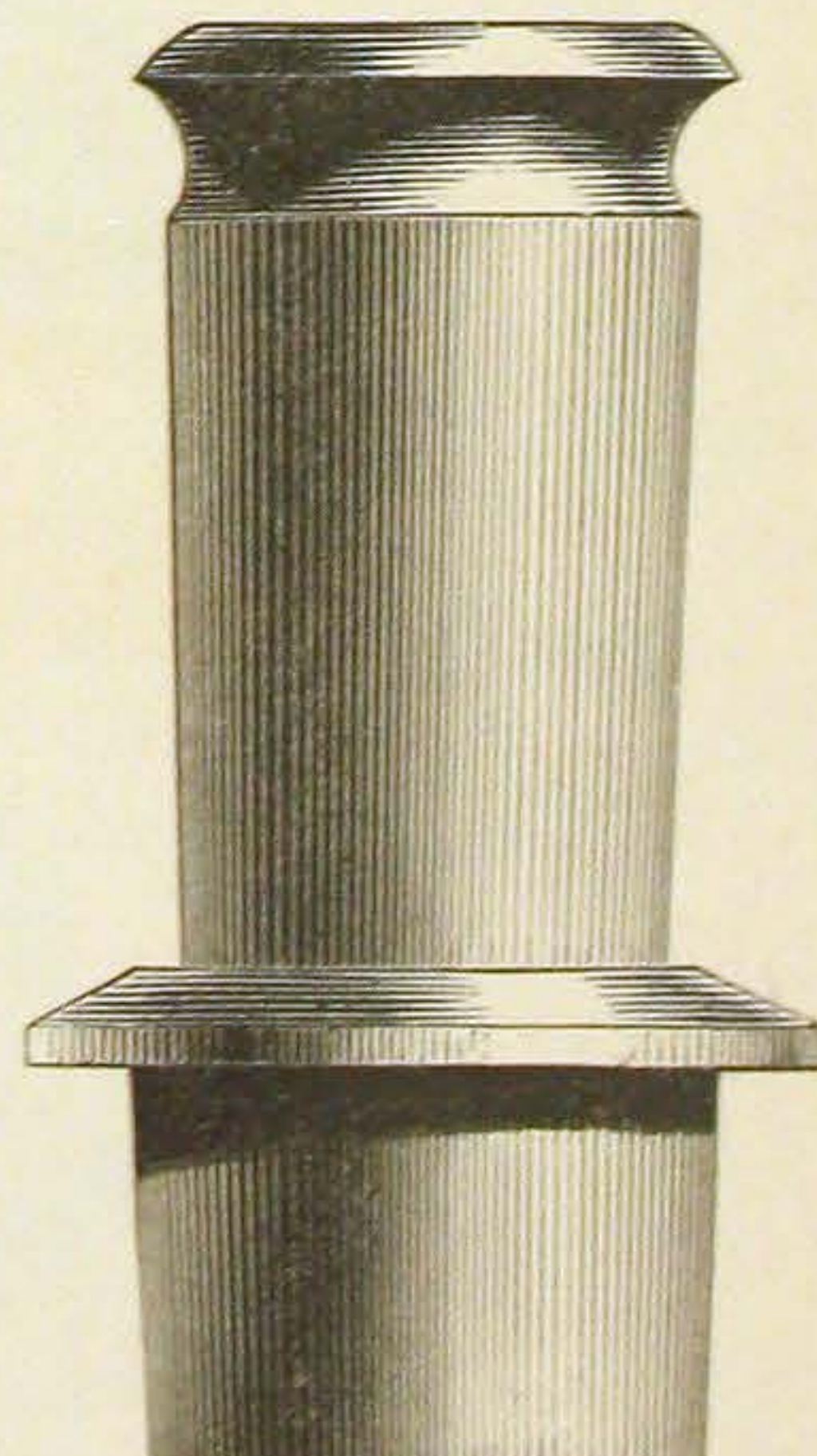
Basin Grate  
and Coupling.

Fig. 795.



Bath Waste  
and Washer.

Fig. 798.

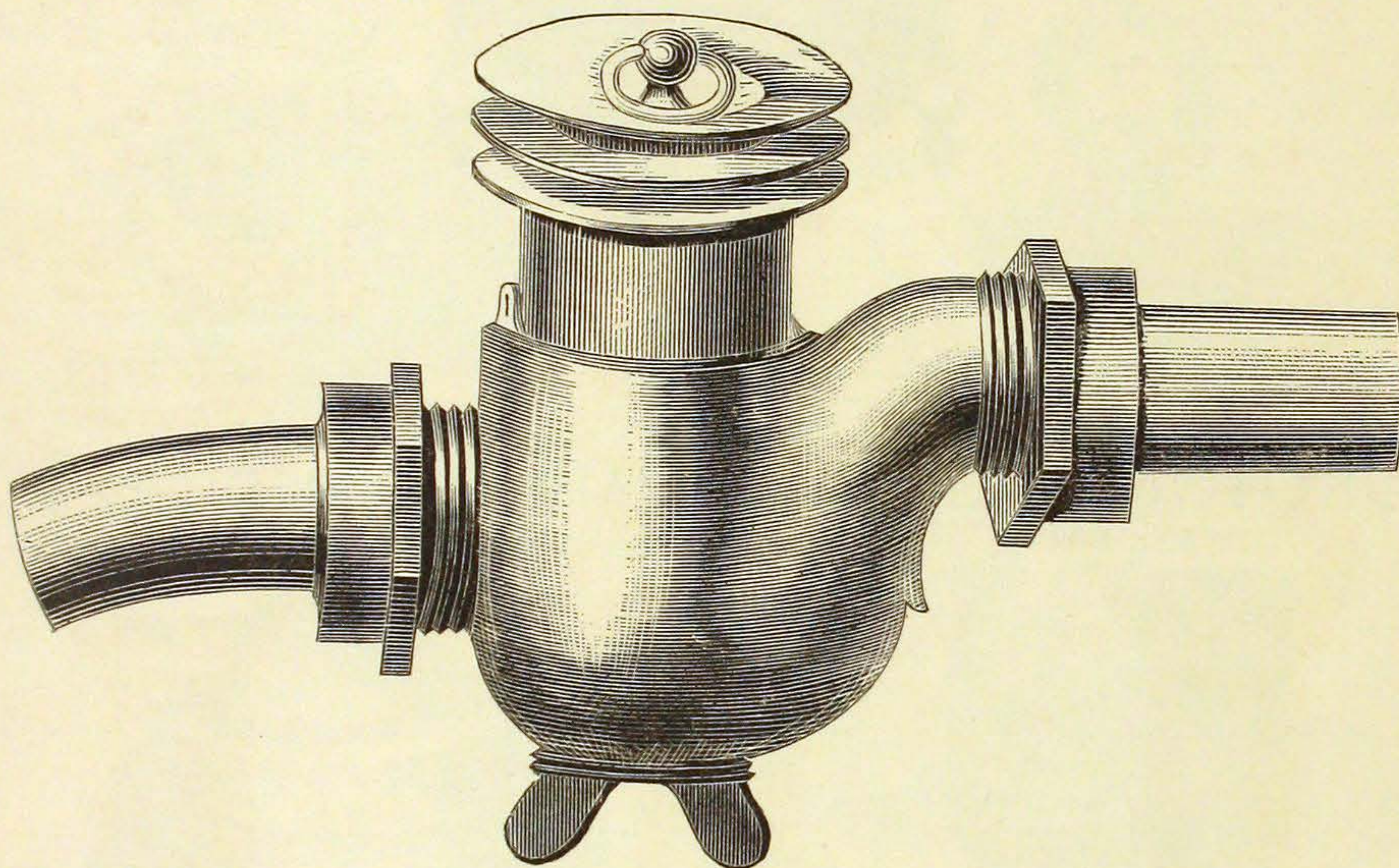




# BASIN PLUG AND TRAP COMBINED.

PATENT.  
COMMON OVERFLOW.

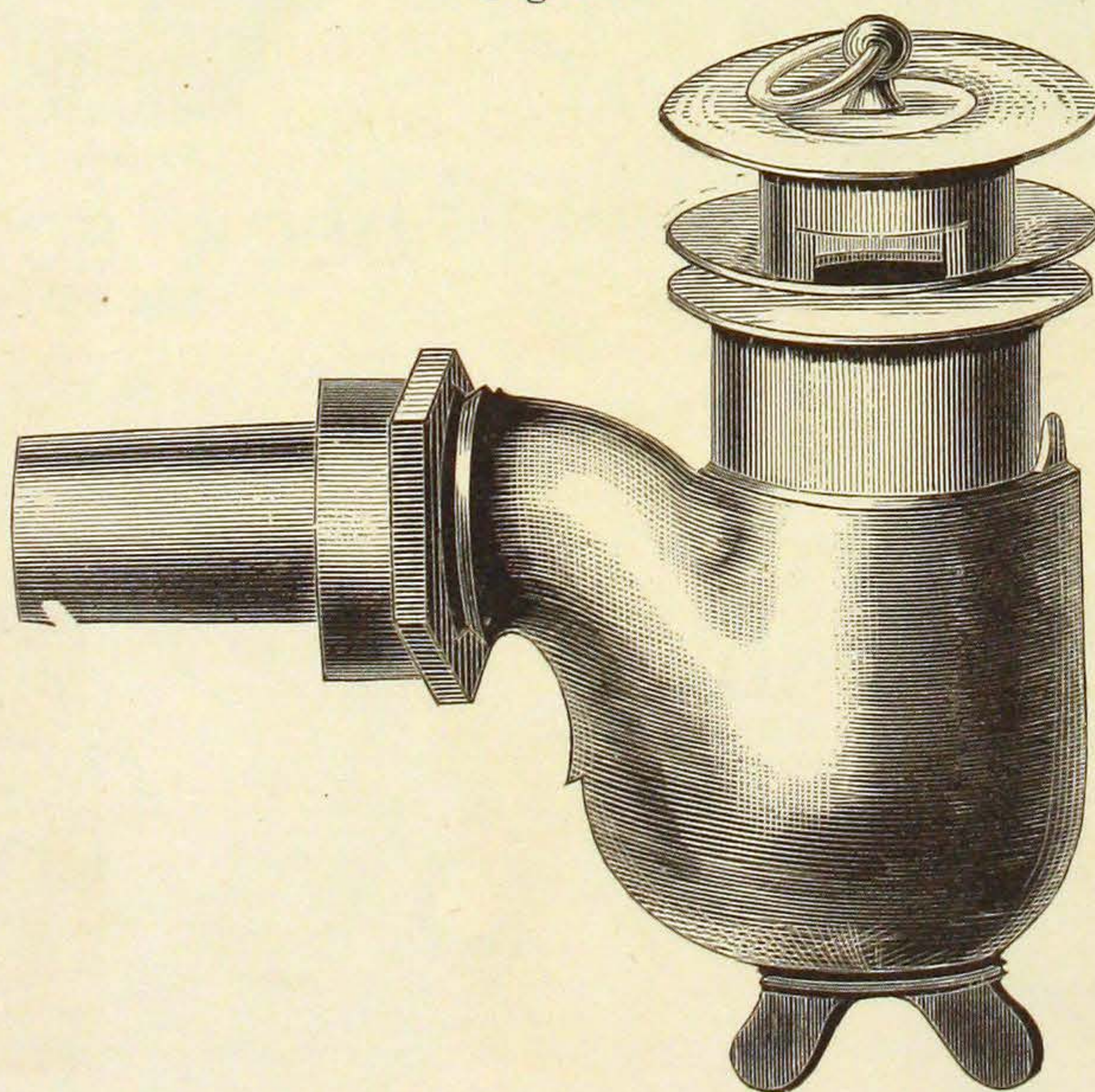
Fig. 799.



Plated.

# PATENT OVERFLOW.

Fig. 800.

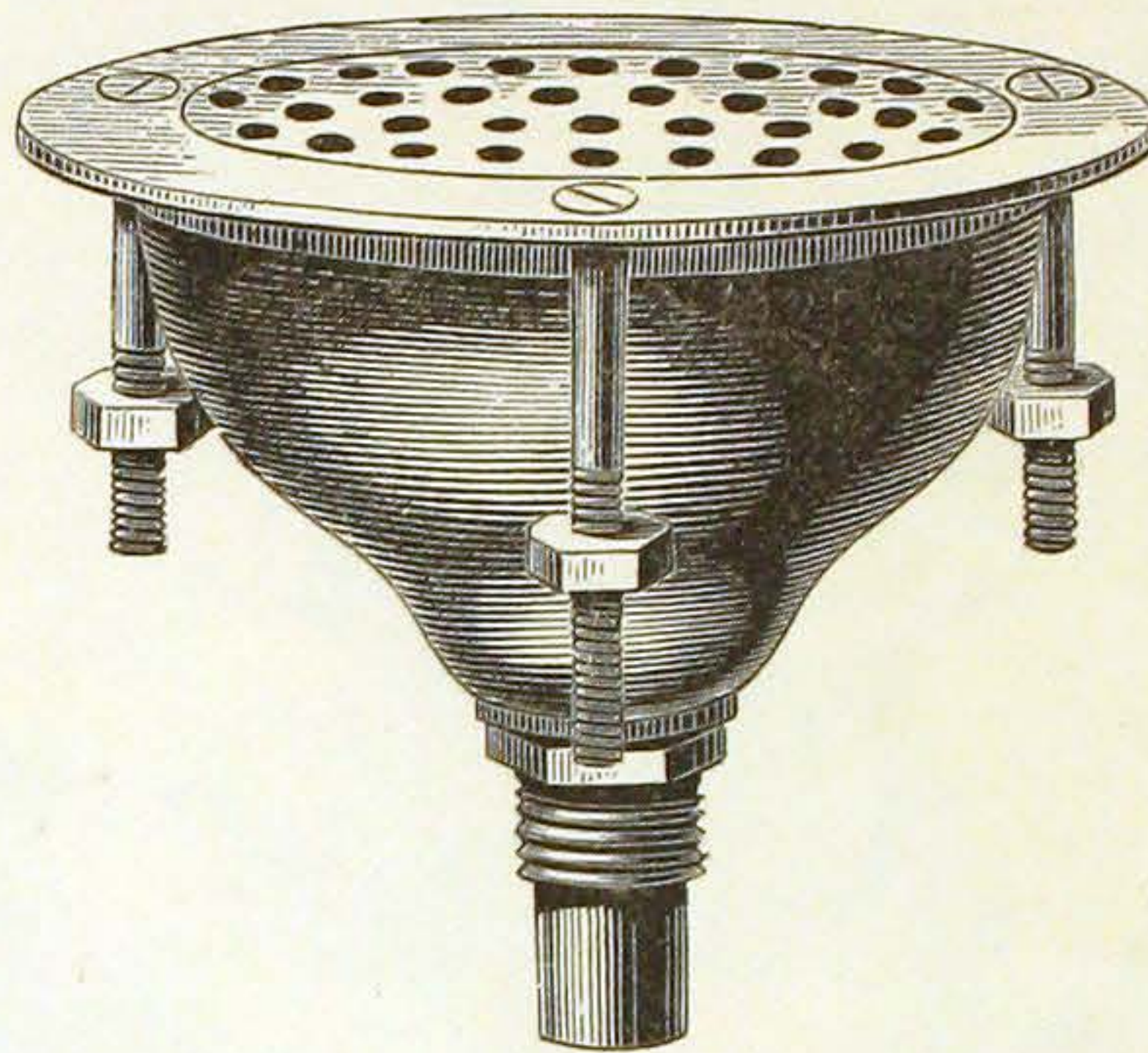


Plated.



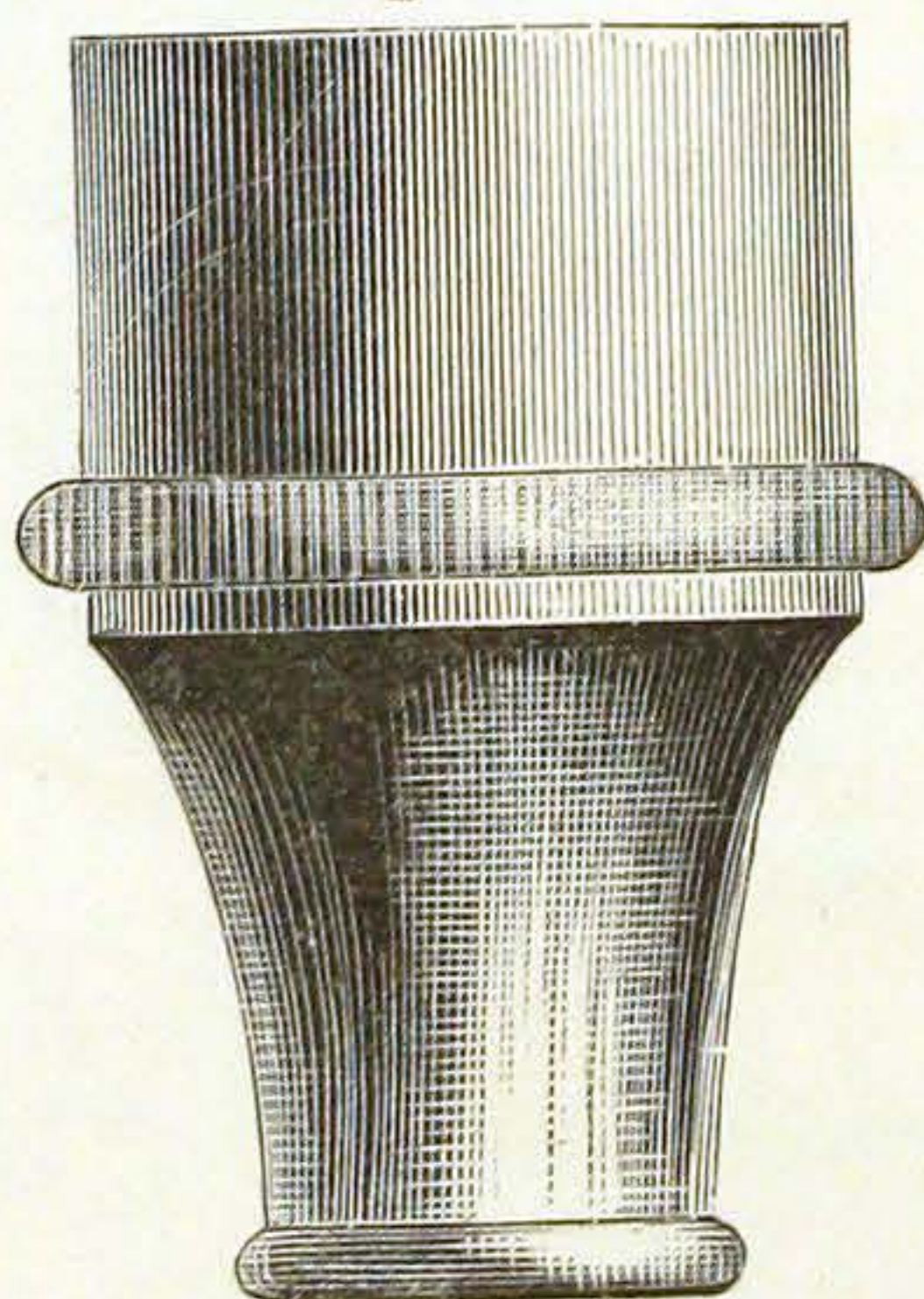
## BELL TRAP.

Fig. 801.



## CROTON FILTER.

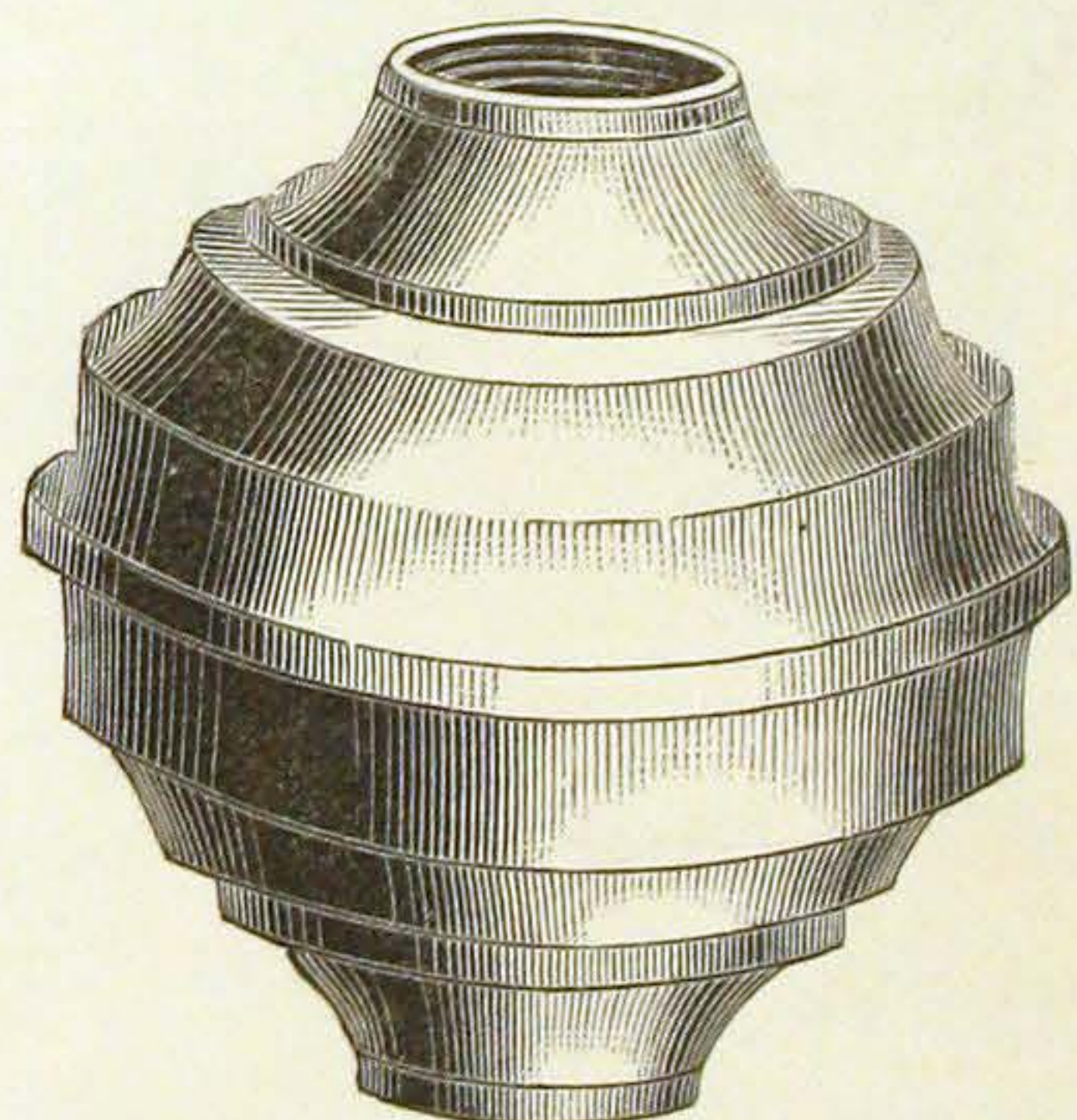
Fig. 802.



Finished and Plated.

## DIAPHRAGM FILTER.

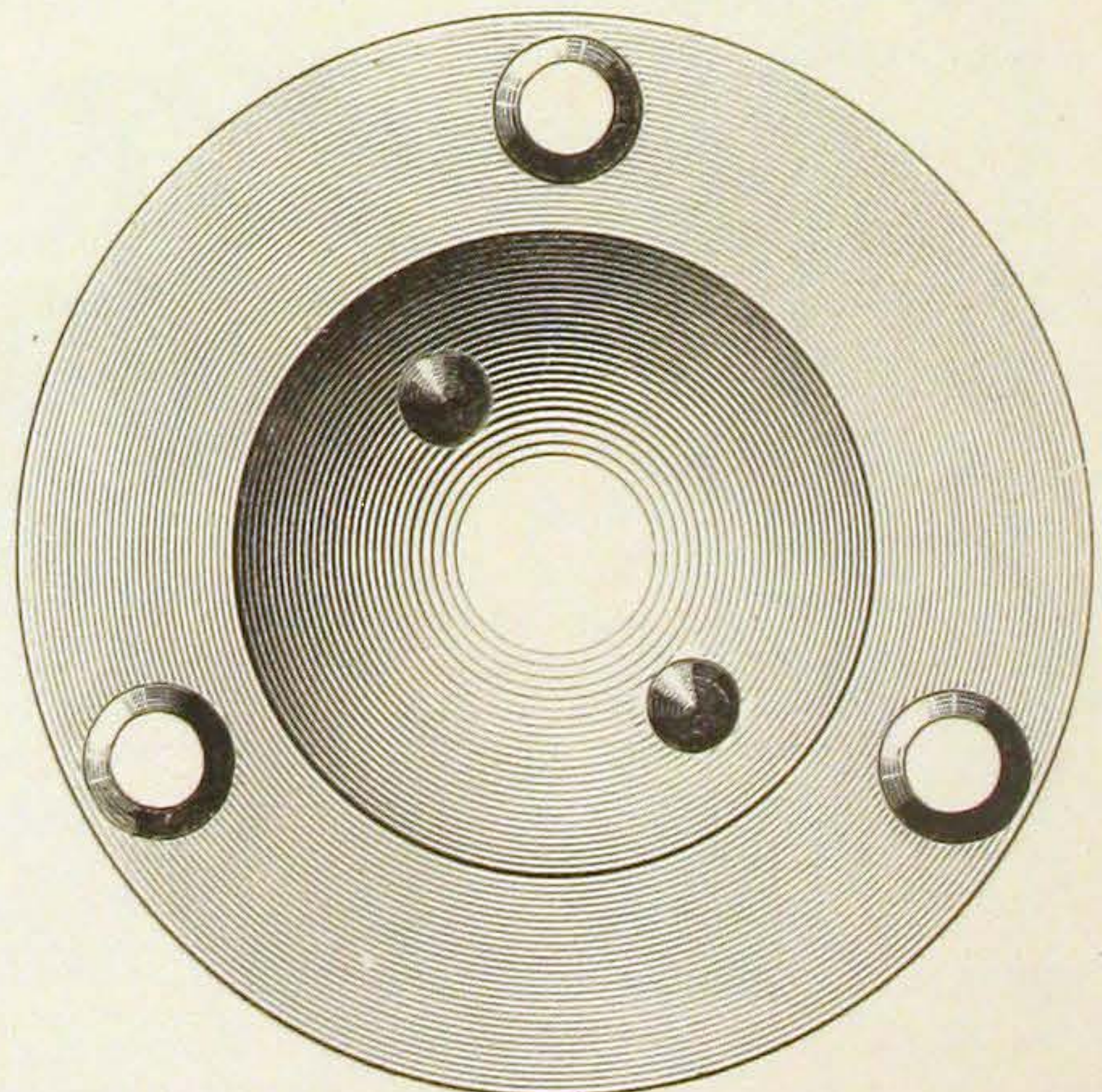
Fig. 803.



Plated.

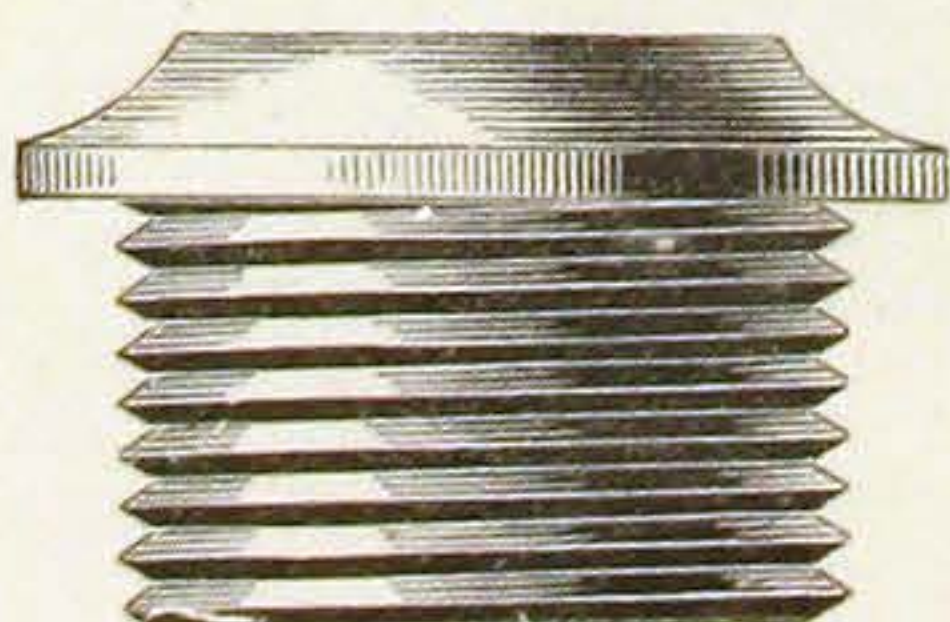
## DECK SCREW.

Fig. 805.



## HOSE BIBB END.

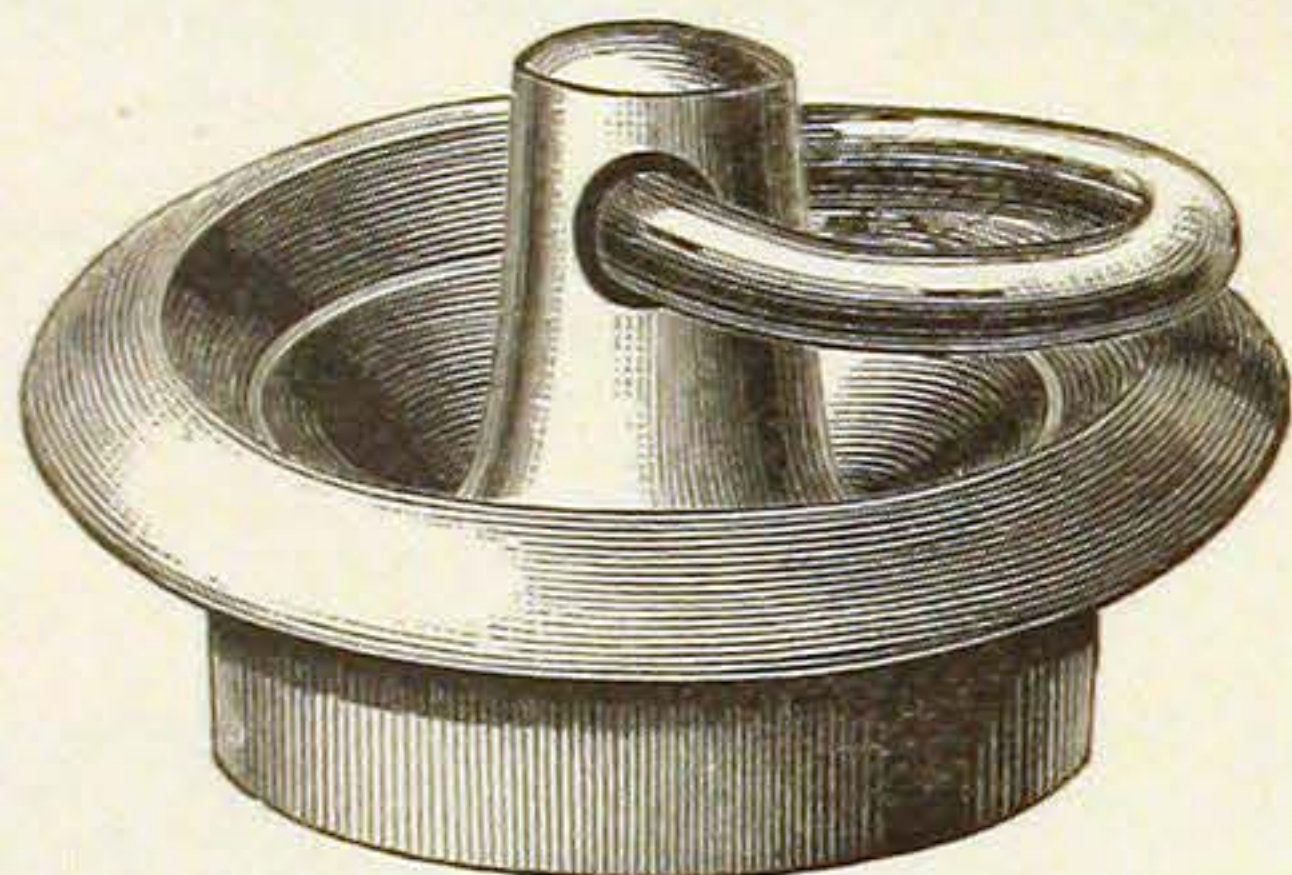
Fig. 804.





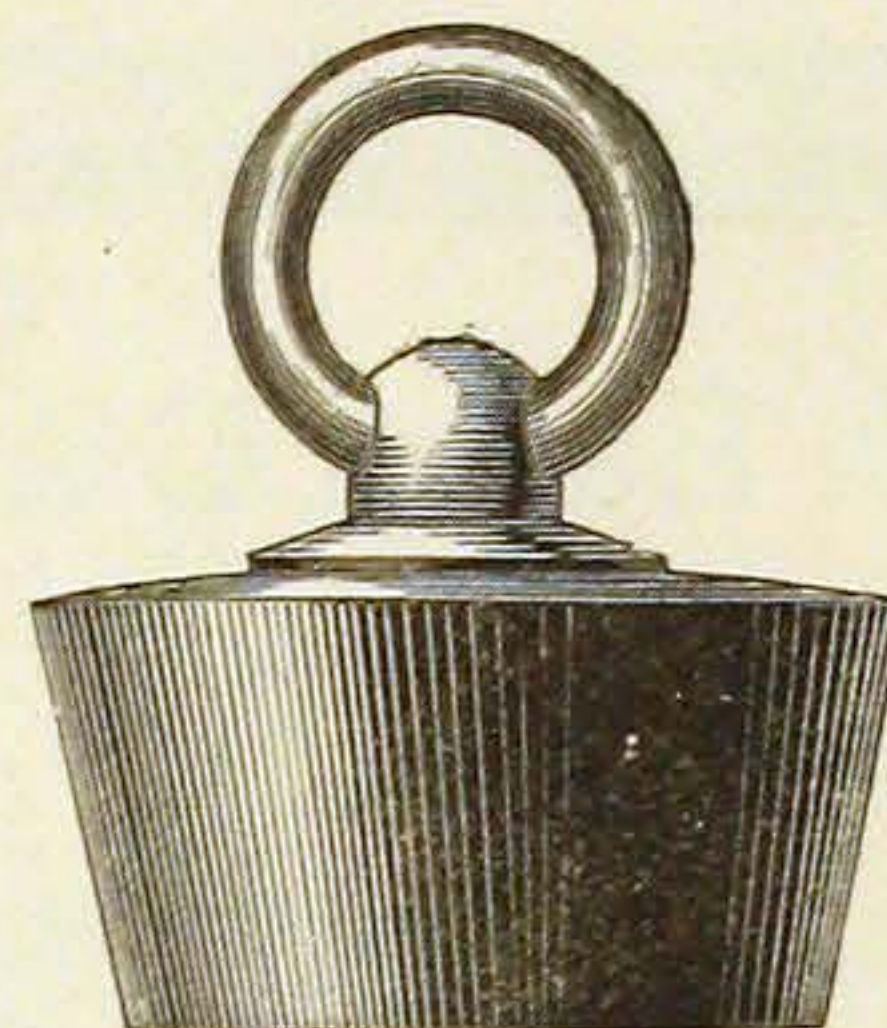
SINK OR BATH PLUG.

Fig. 806.



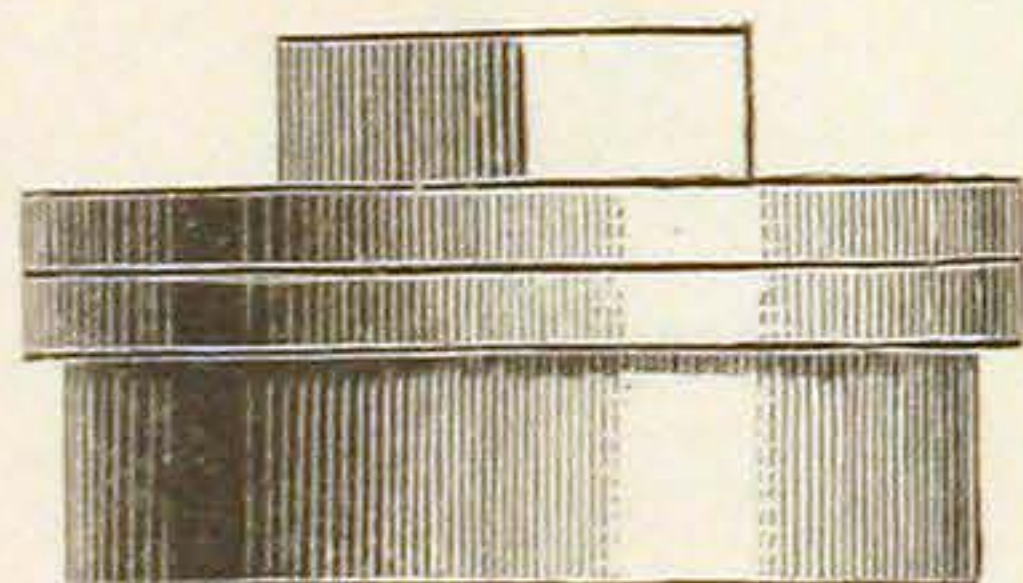
RUBBER PLUG.

Fig. 807.



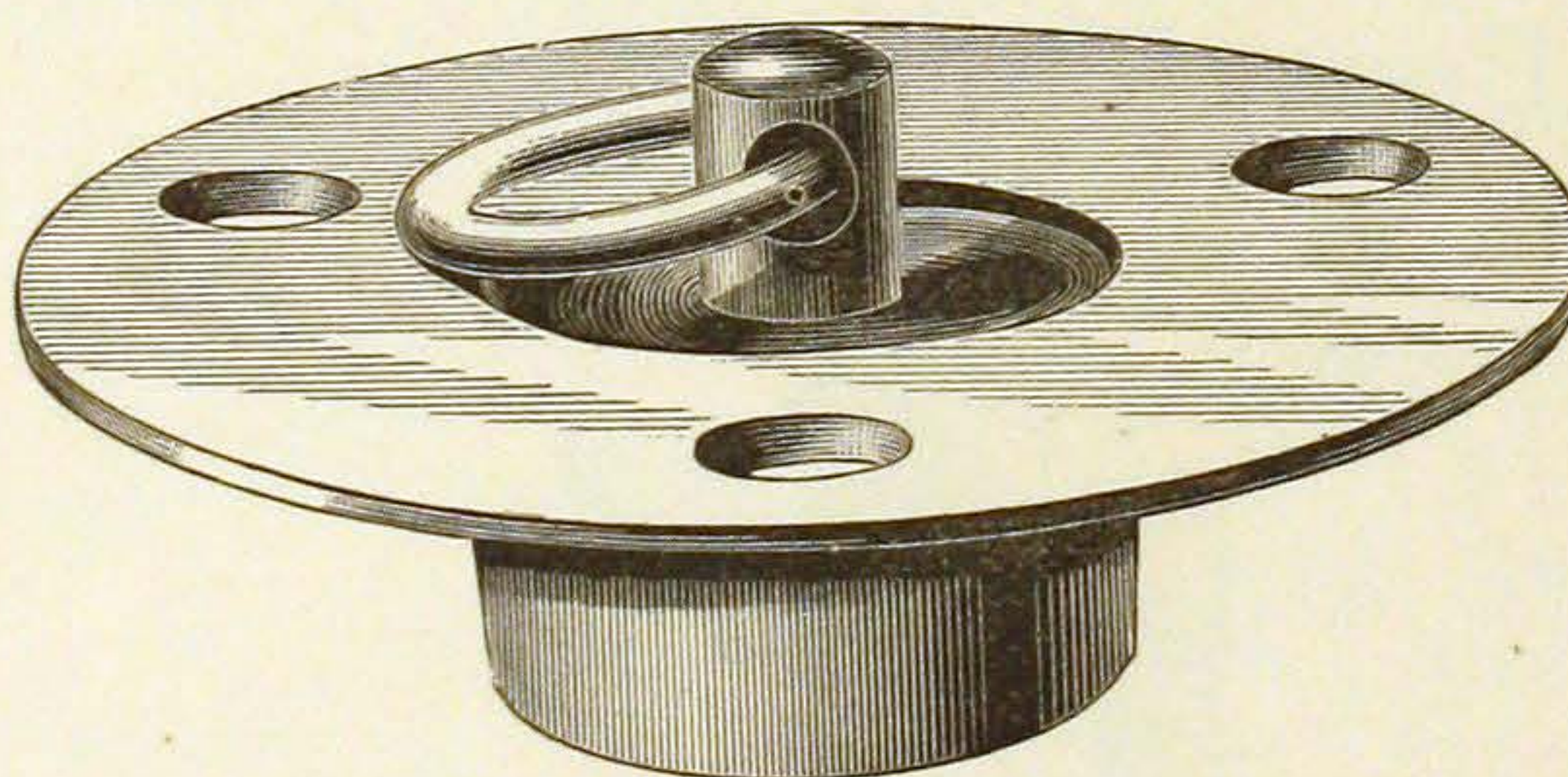
TRAP SCREW.

Fig. 808.



WASH TRAY PLUG.

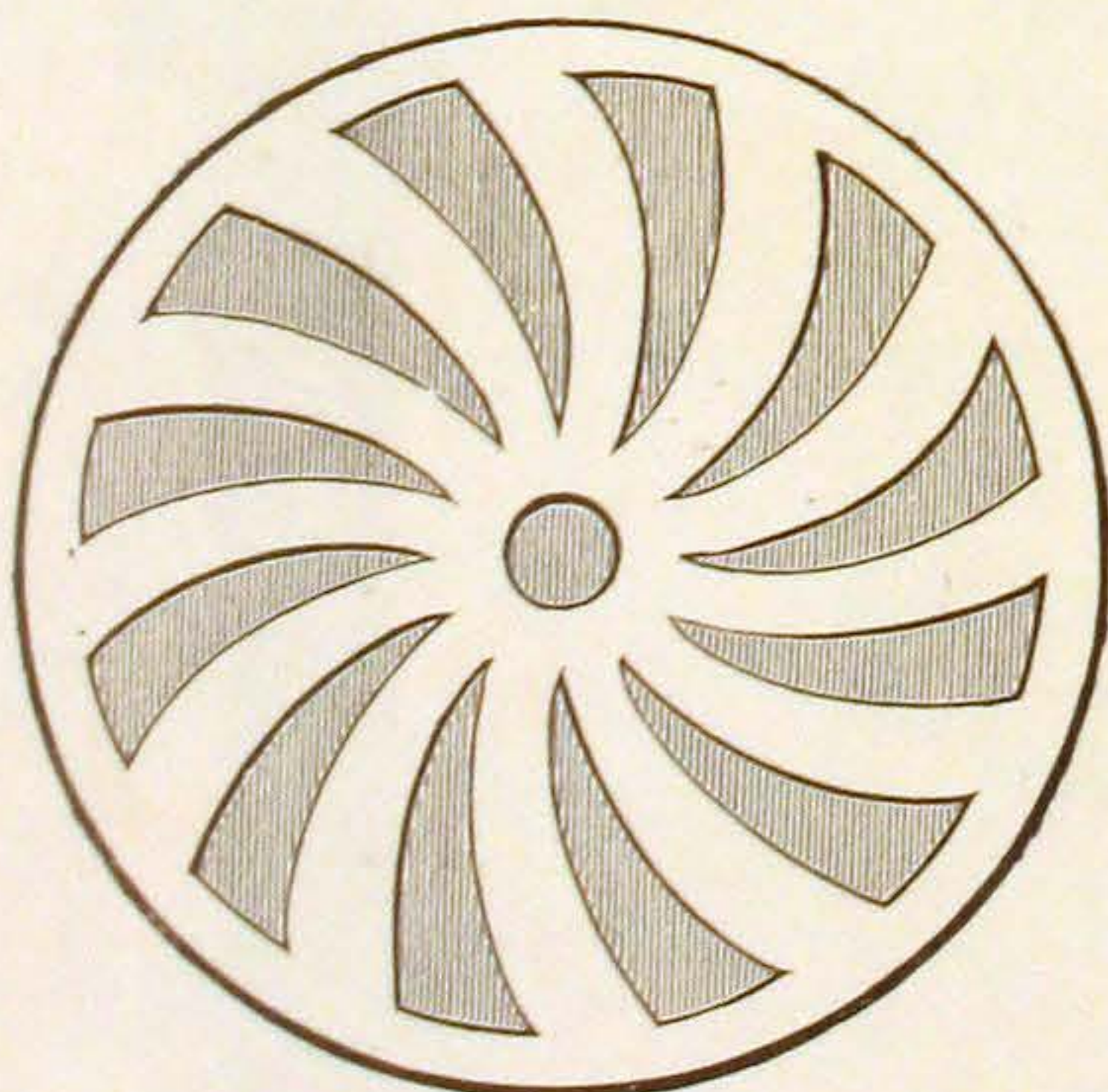
Fig. 809.



STRAINERS.

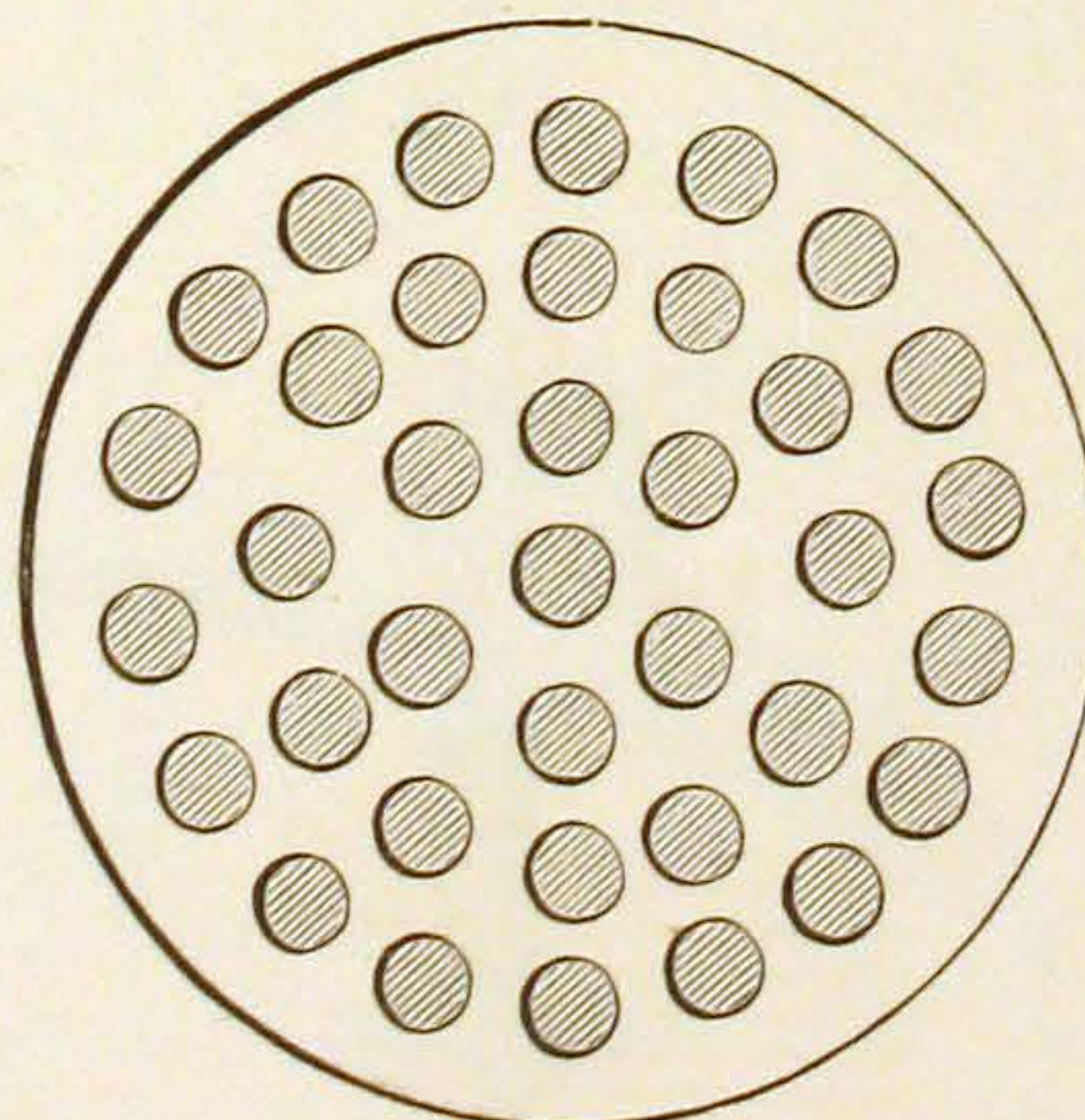
FANCY.

Fig. 810.



PLAIN.

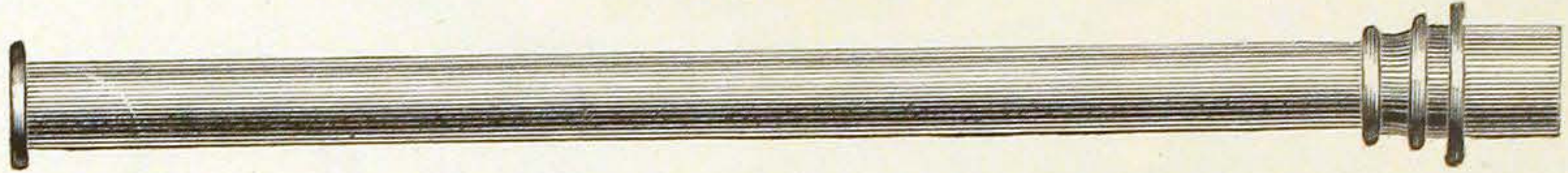
Fig. 811.





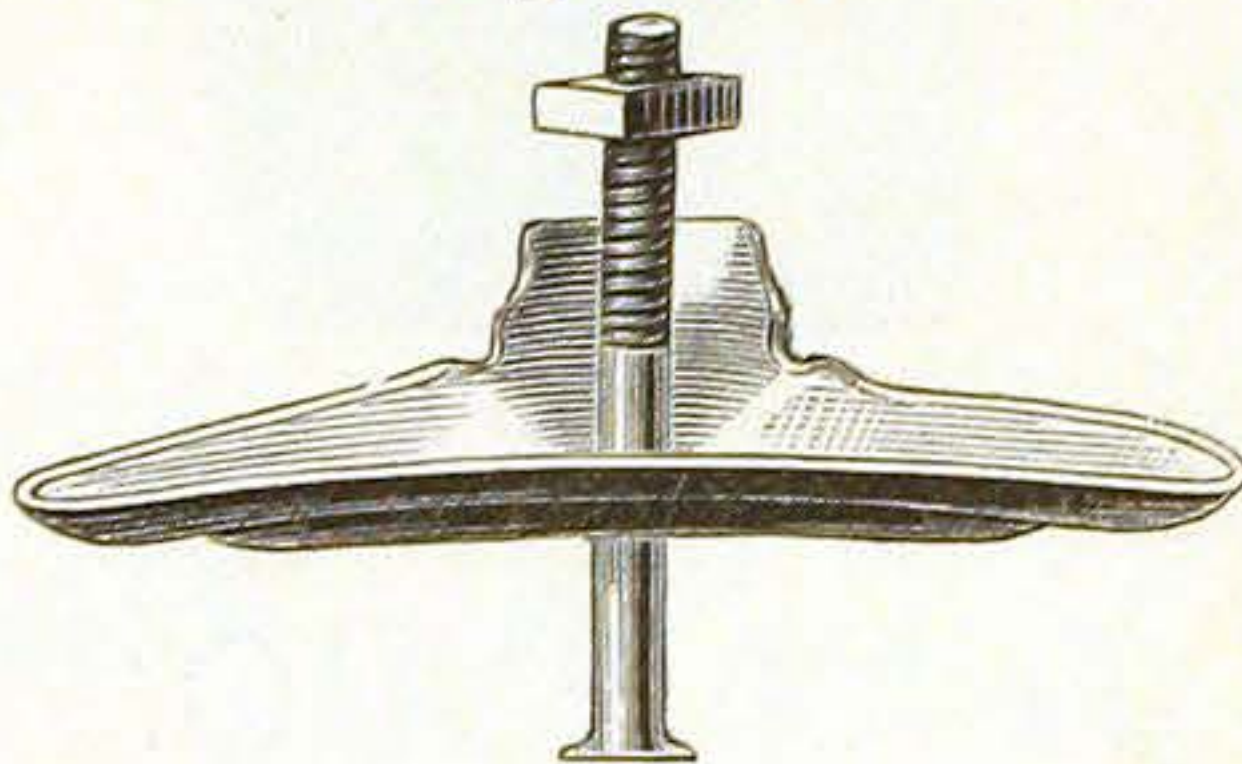
Bath Waste and Washer.  
WITH STANDING PIPE.

Fig. 812.



Zinc Basin Clamp.

Fig. 813.



No. 1, Brass Basin Clamp.

Fig. 814.

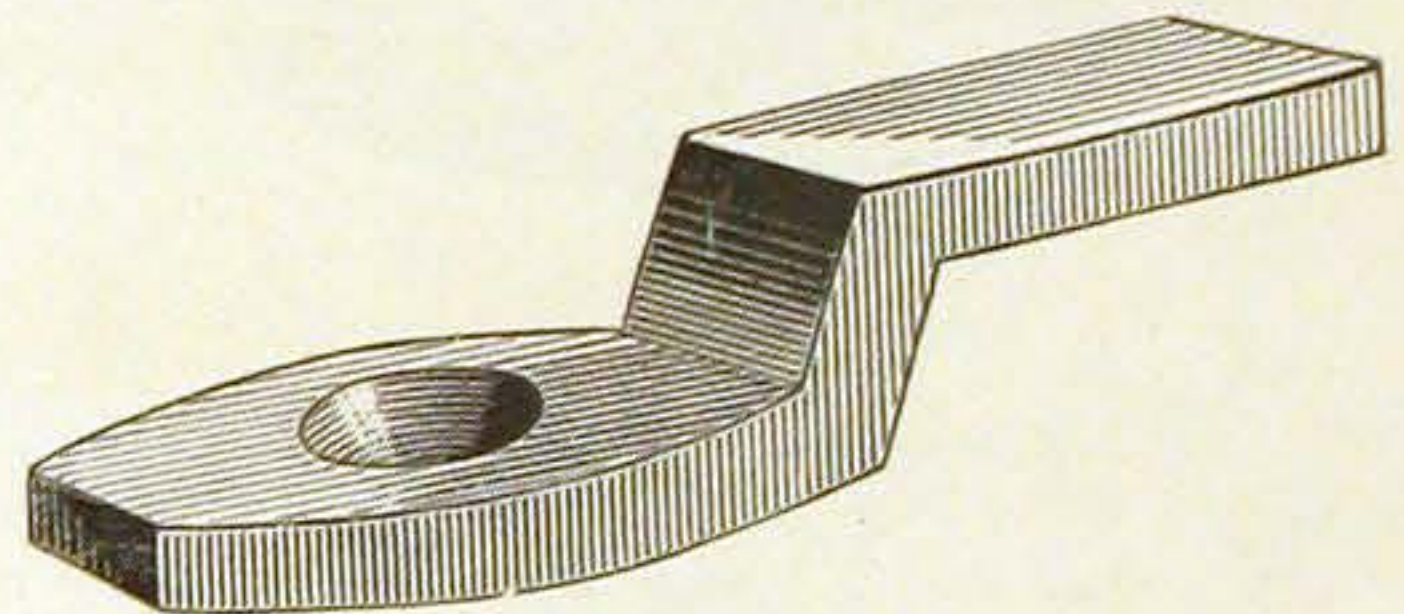
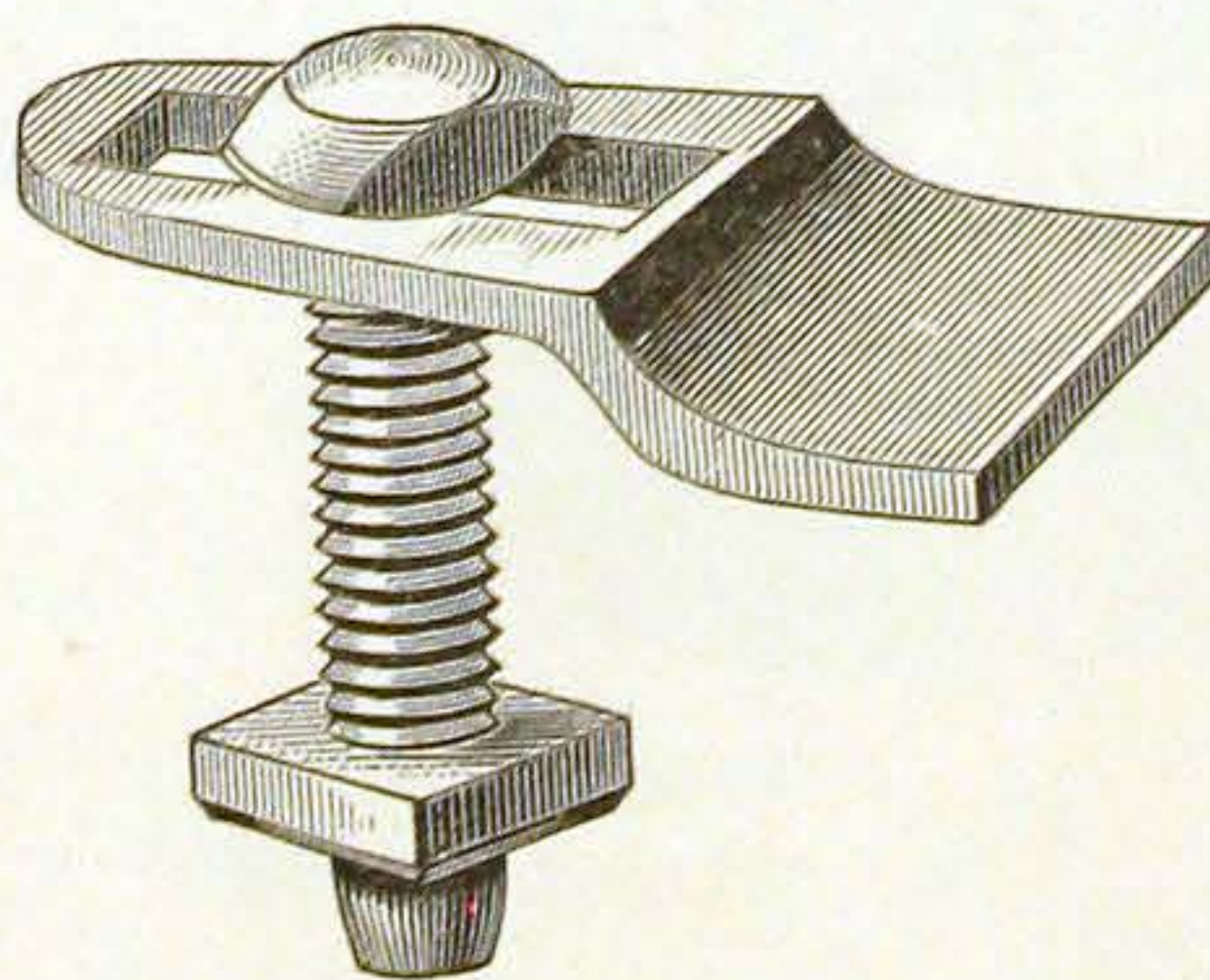
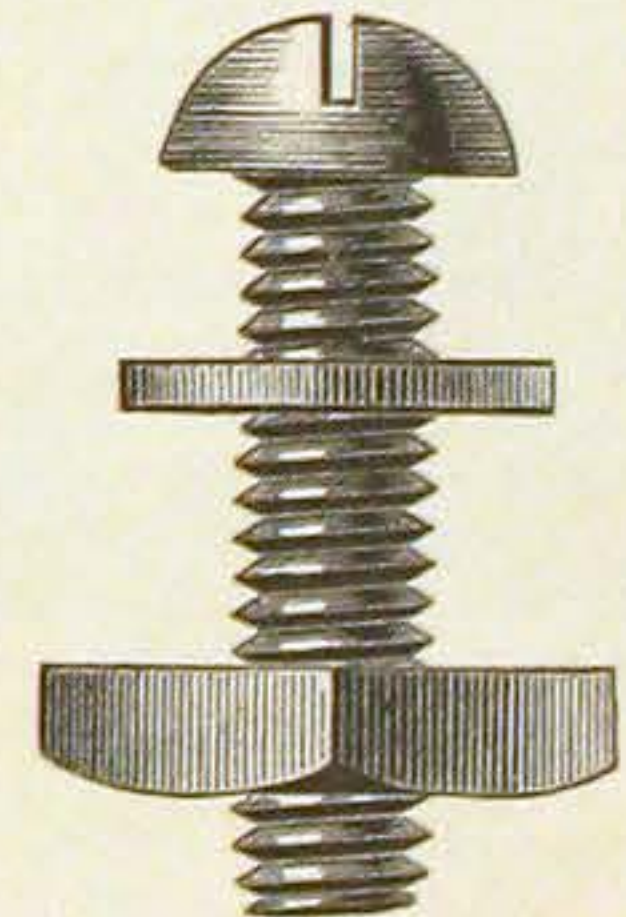
No. 2, New Style  
Brass Basin Clamp.

Fig. 815.



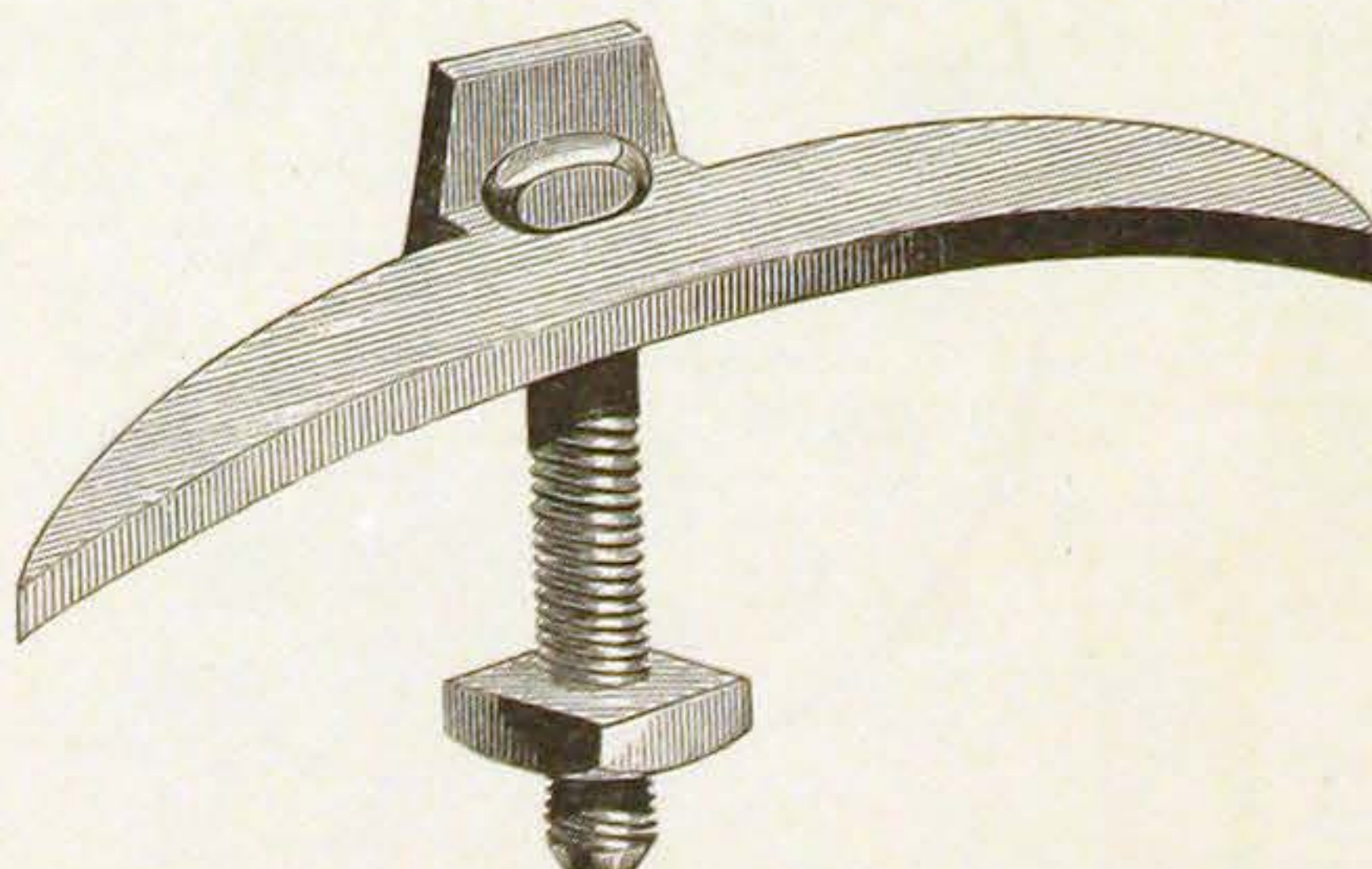
Fan Screw.

Fig. 816.



No. 3, Brass Basin Clamp.

Fig. 817.



Fan Screw.

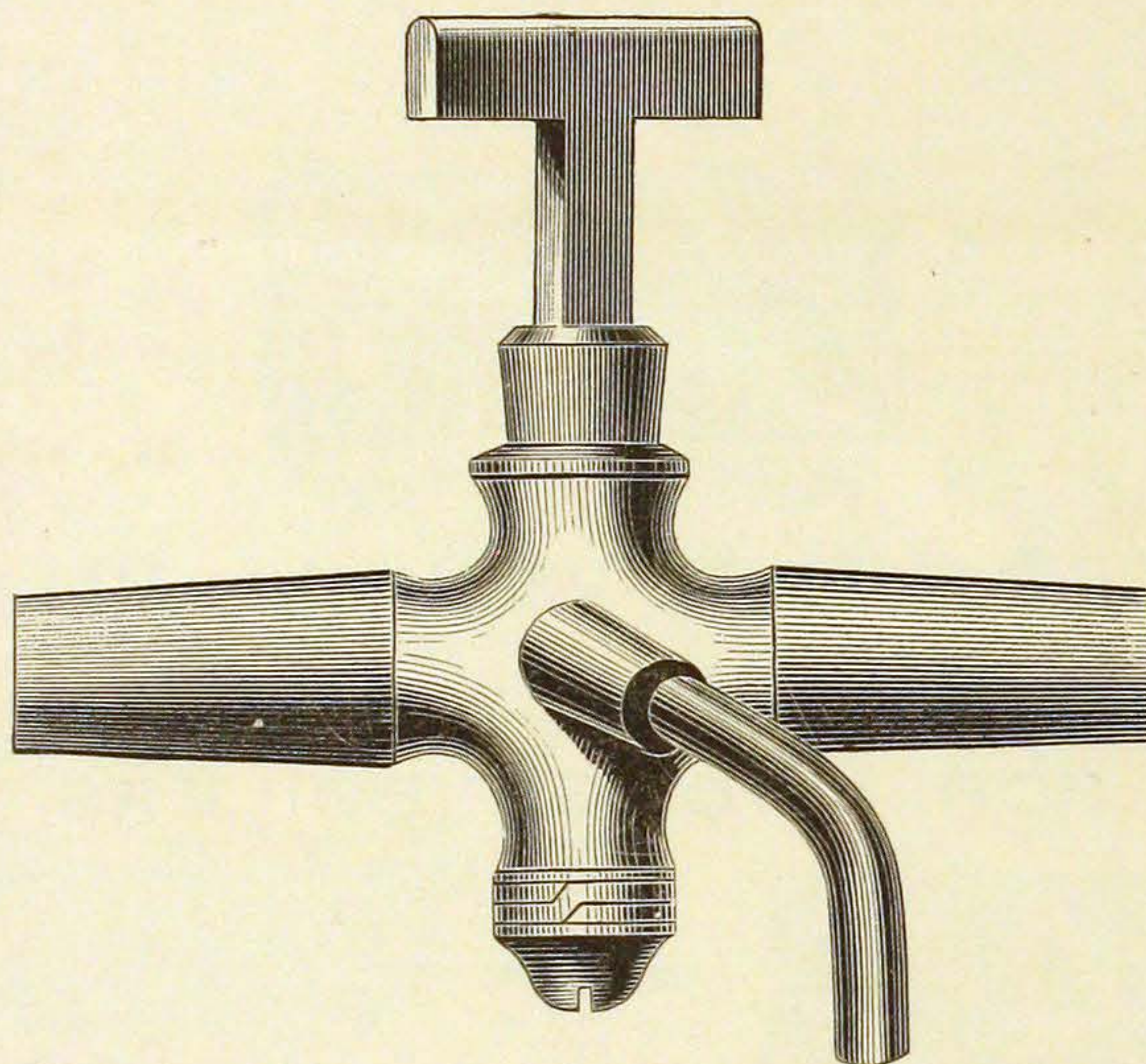
Fig. 818.





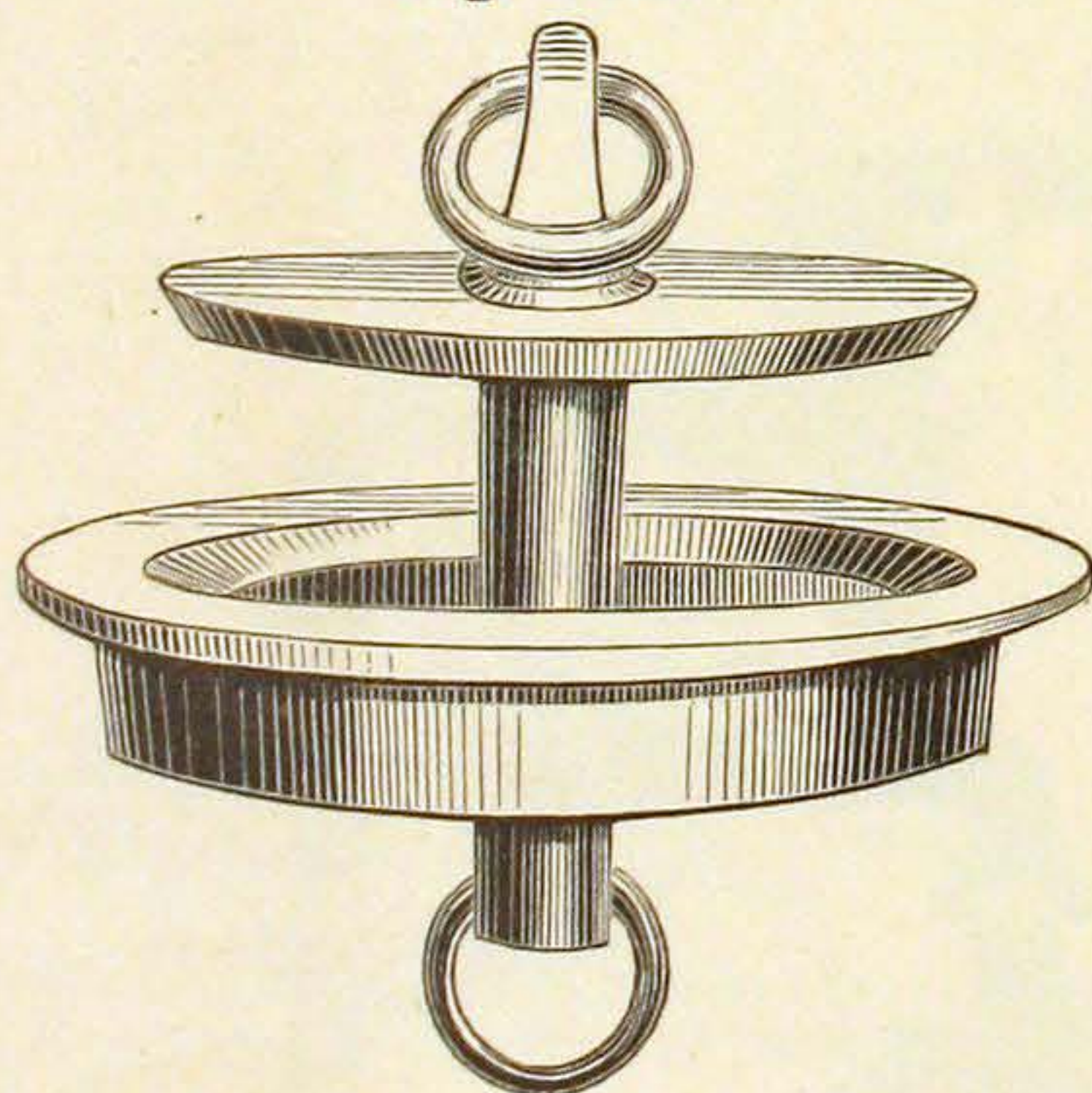
## T HANDLE HOPPER COCK.

Fig. 819.



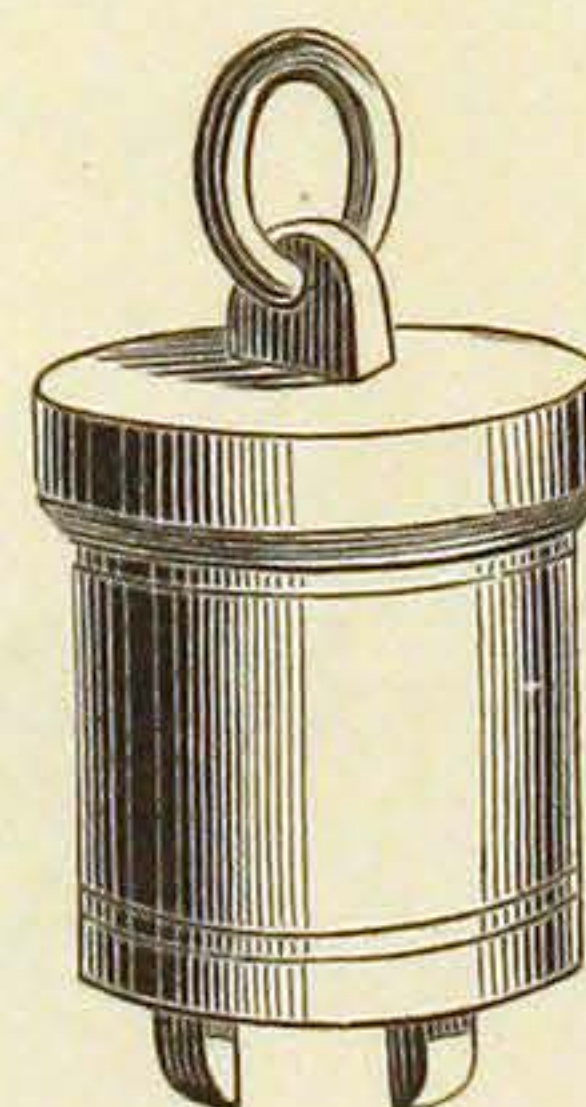
## BATH VALVE.

Fig. 820.



## BASIN VALVE.

Fig. 821.

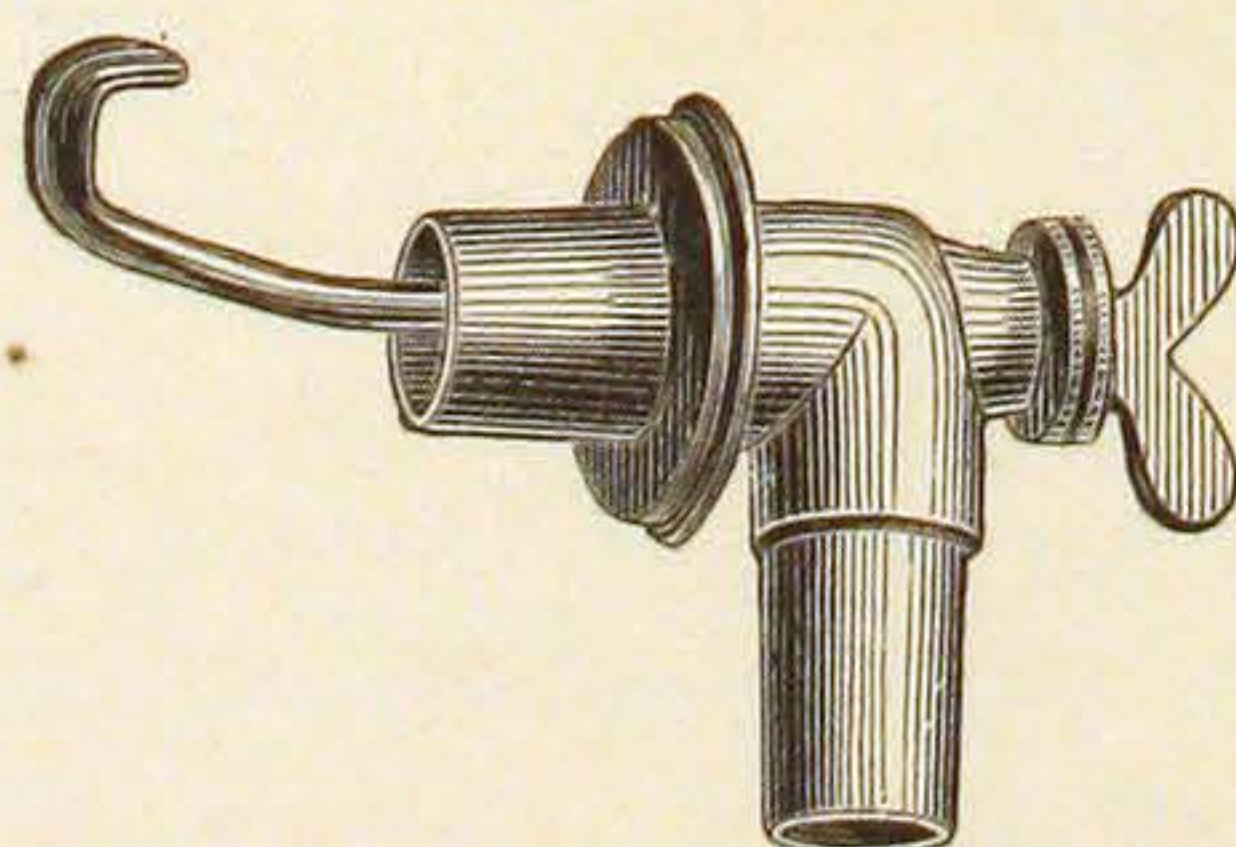


## BASIN JOINT.

PATENT.

FOR CLOSET BOWLS AND HOPPERS.

Fig. 822.

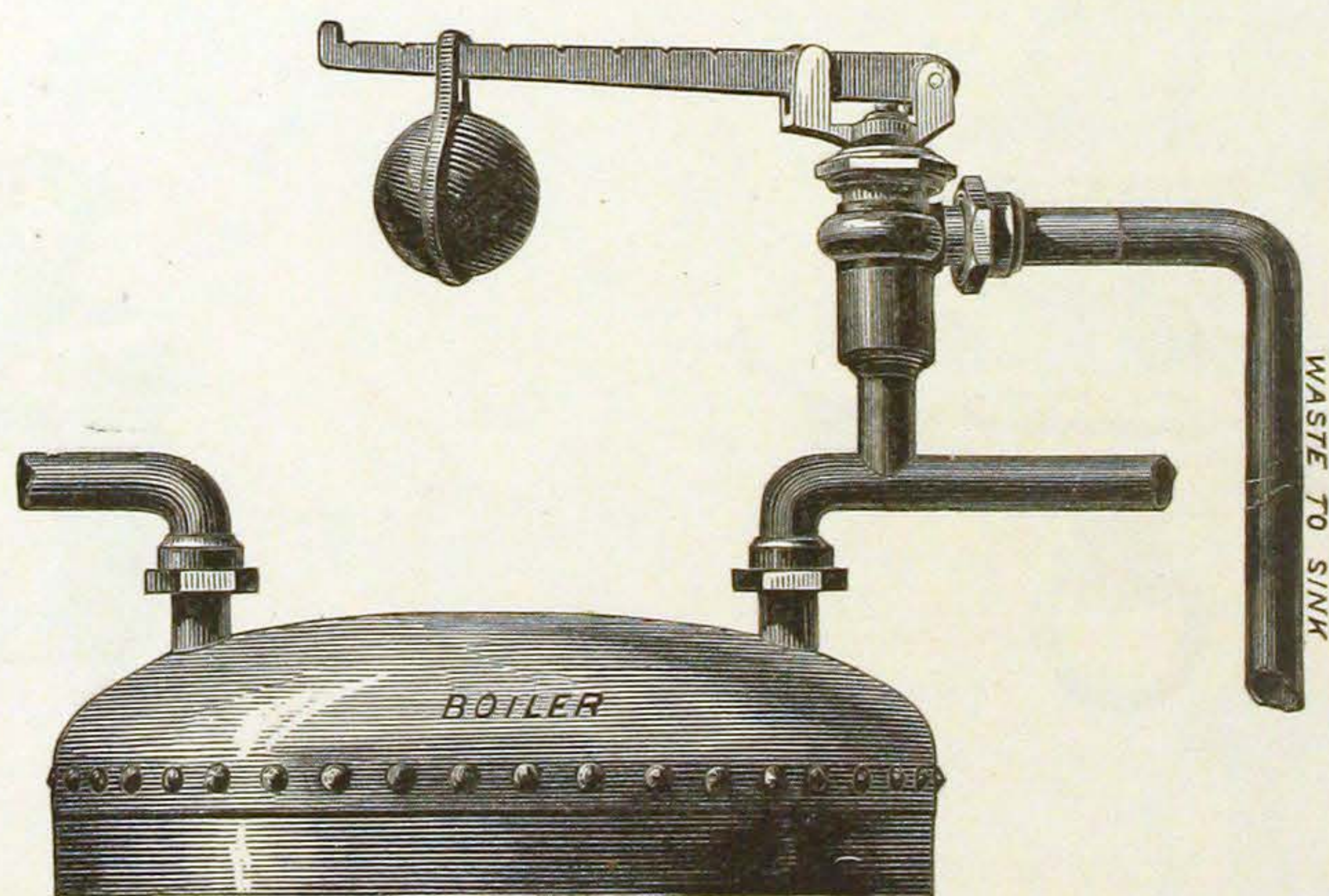




COMBINATION  
SAFETY AND VACUUM VALVE.  
FOR KITCHEN BOILERS.

PATENT.

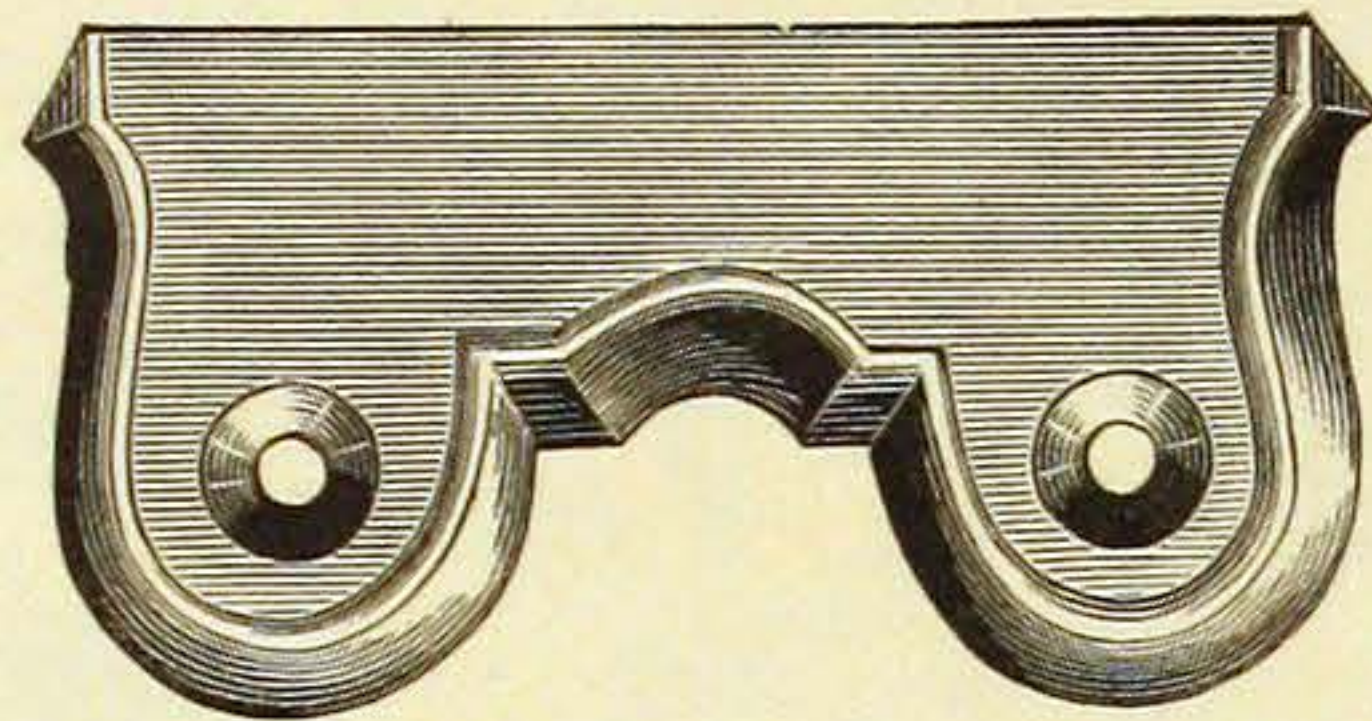
Fig. 823.





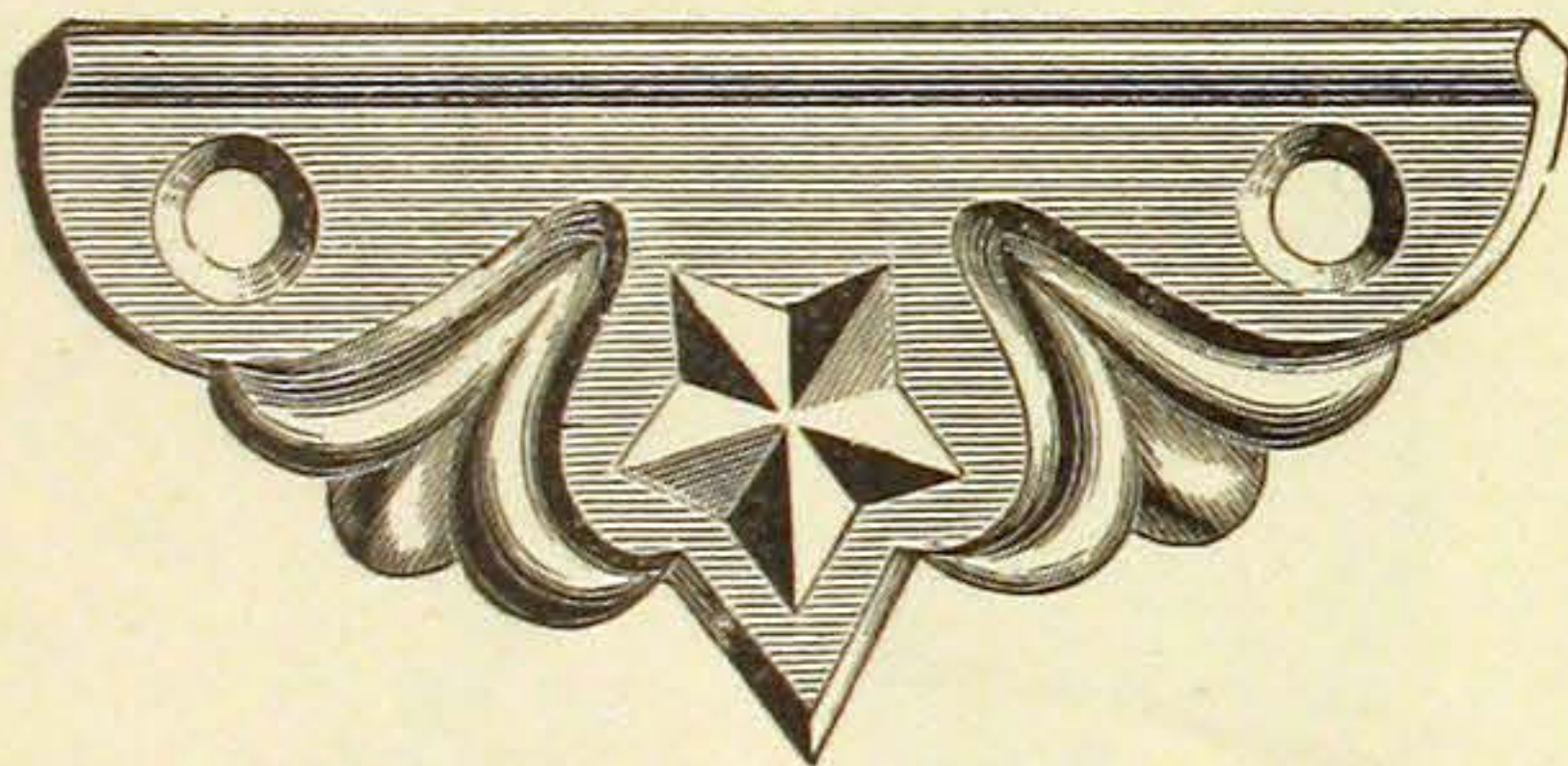
# TACK MOULDS.

**Fig. 824.**



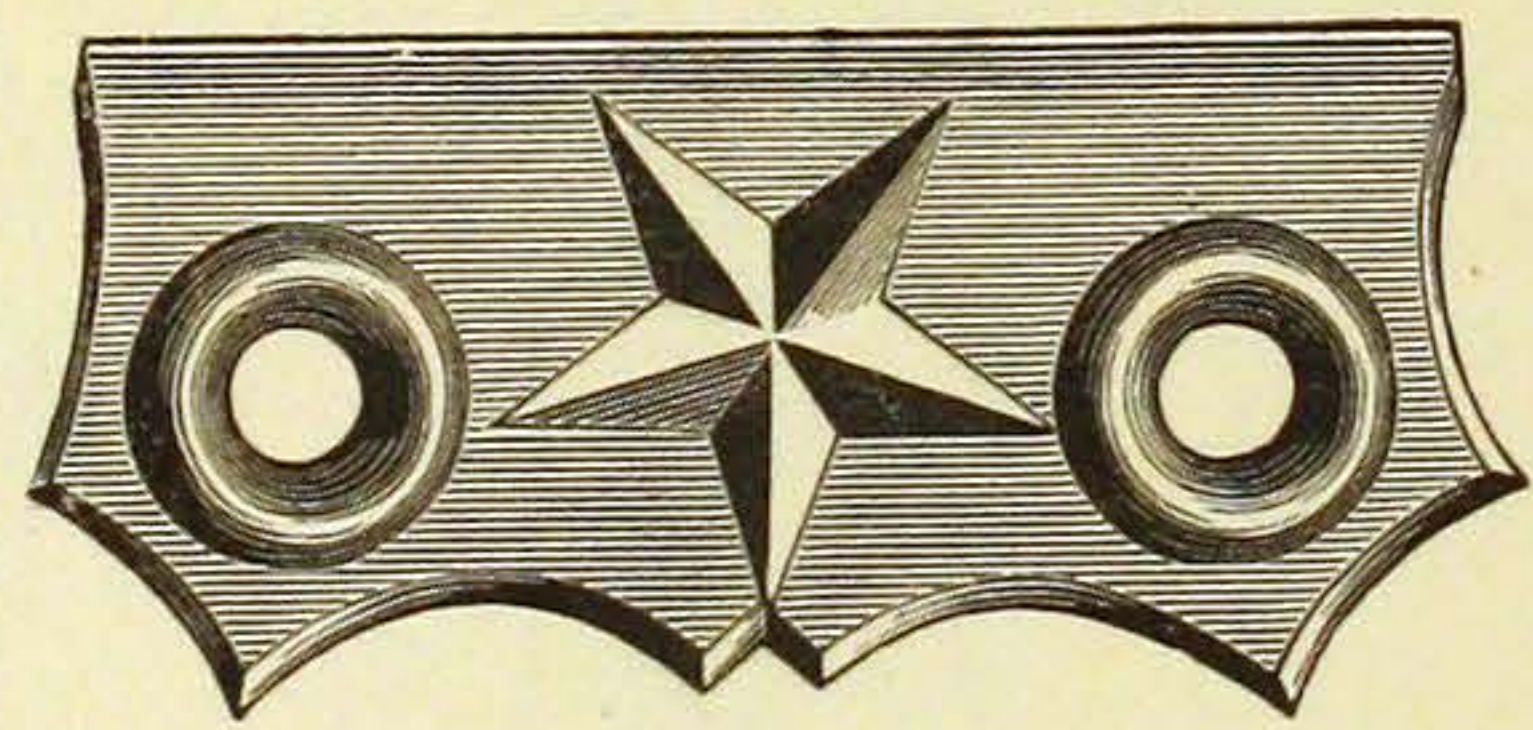
No. 1.

**Fig. 825.**



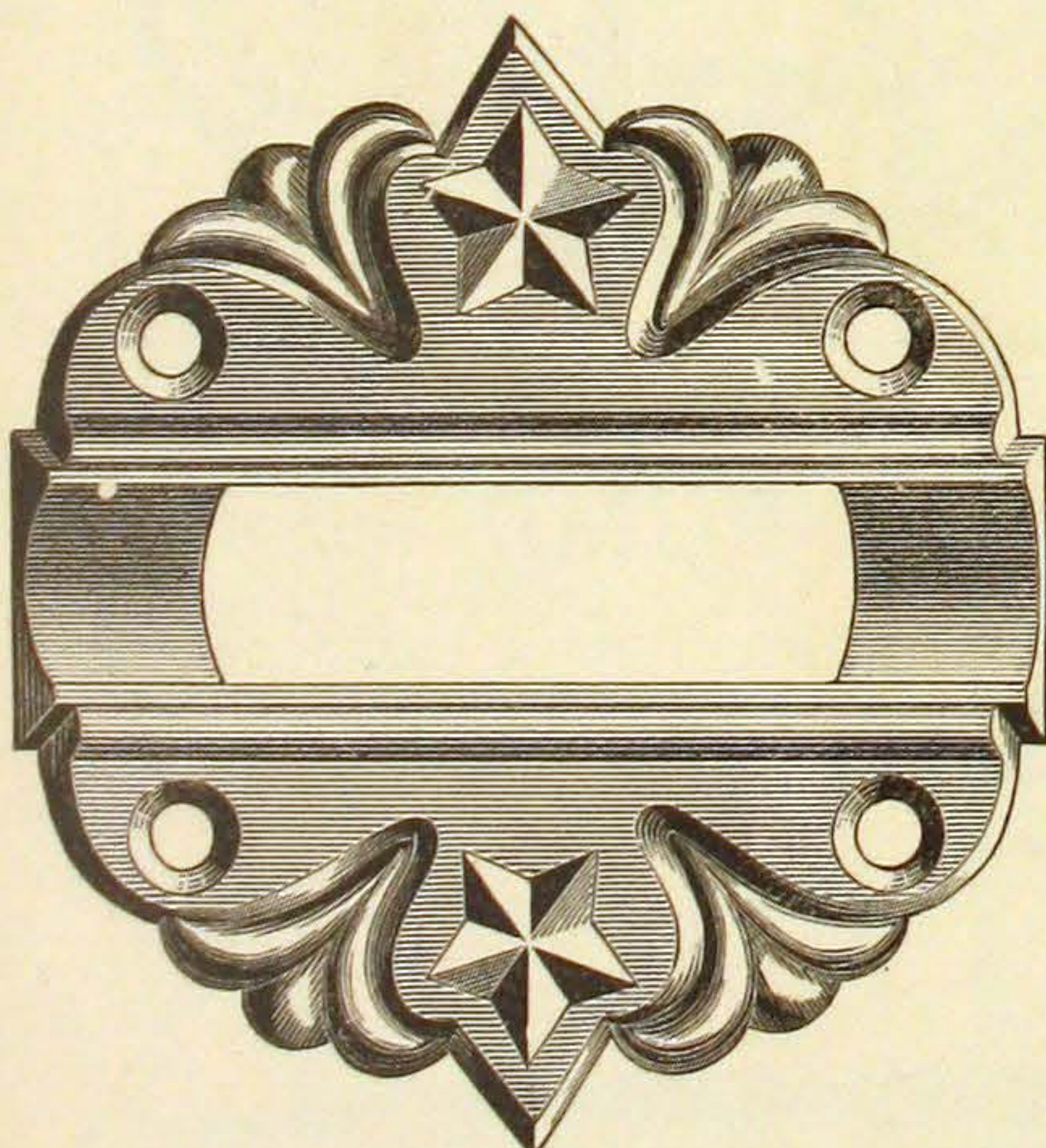
No. 2.

**Fig. 826.**



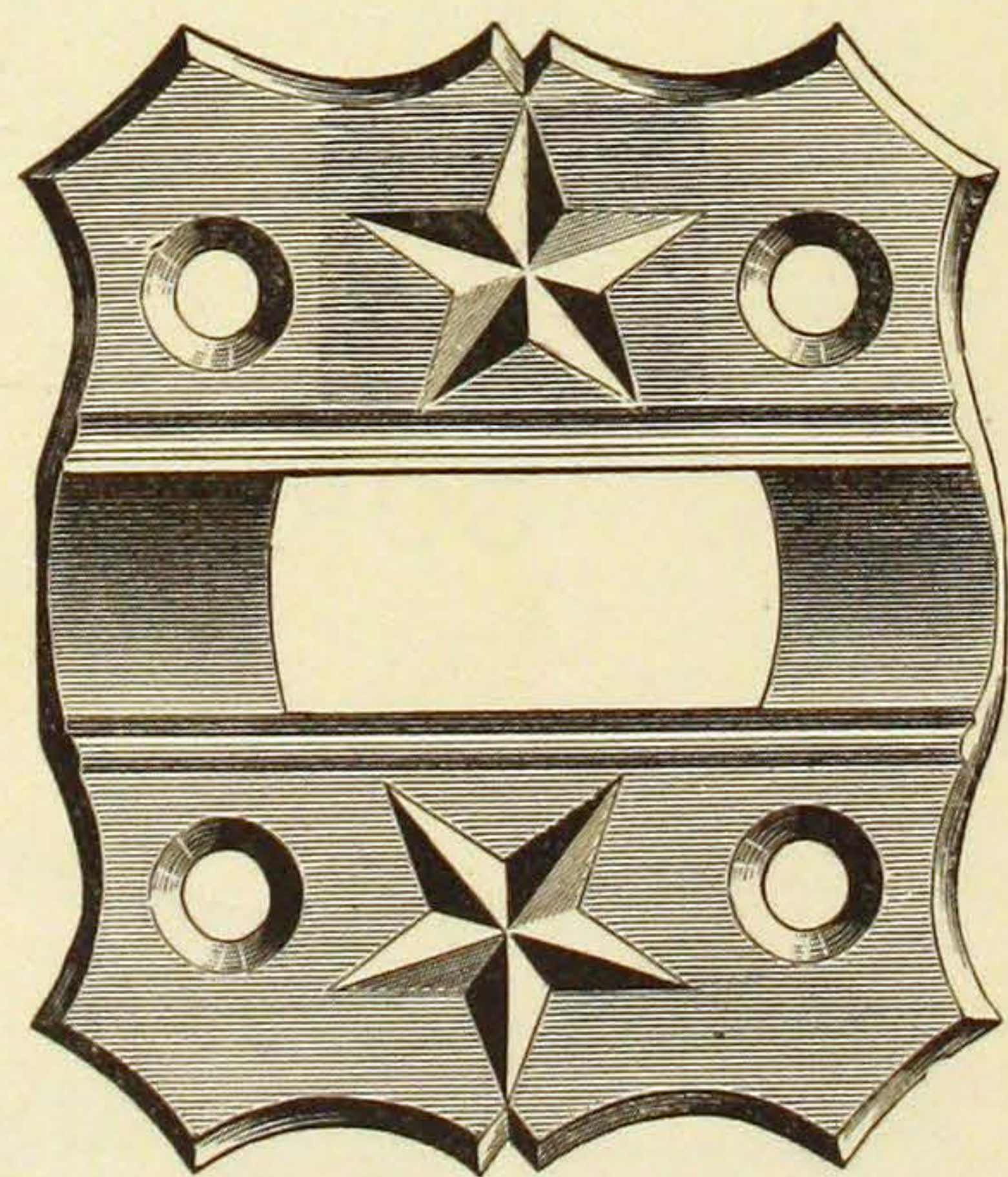
No. 3.

**Fig. 827.**



No. 4.

**Fig. 828.**



No. 5.

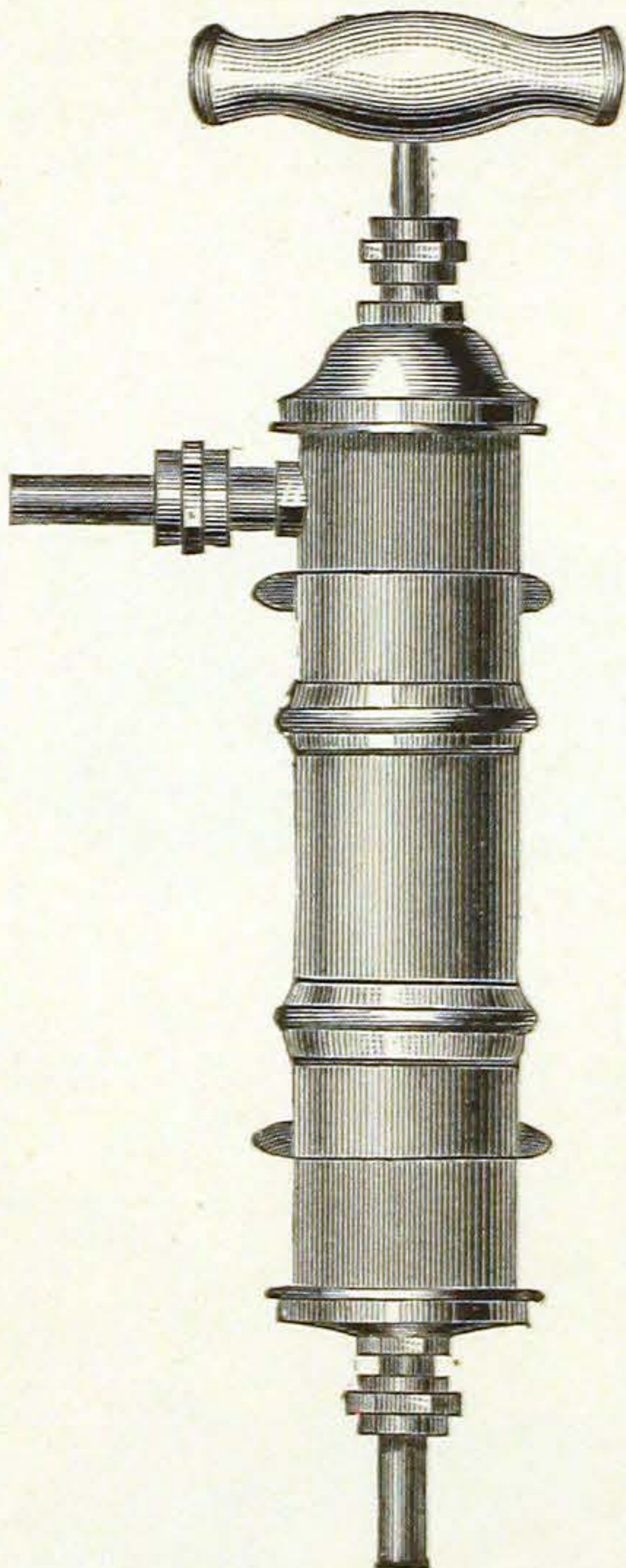
The above Cuts represent the Tacks our Moulds will cast.



## BEER PUMPS.

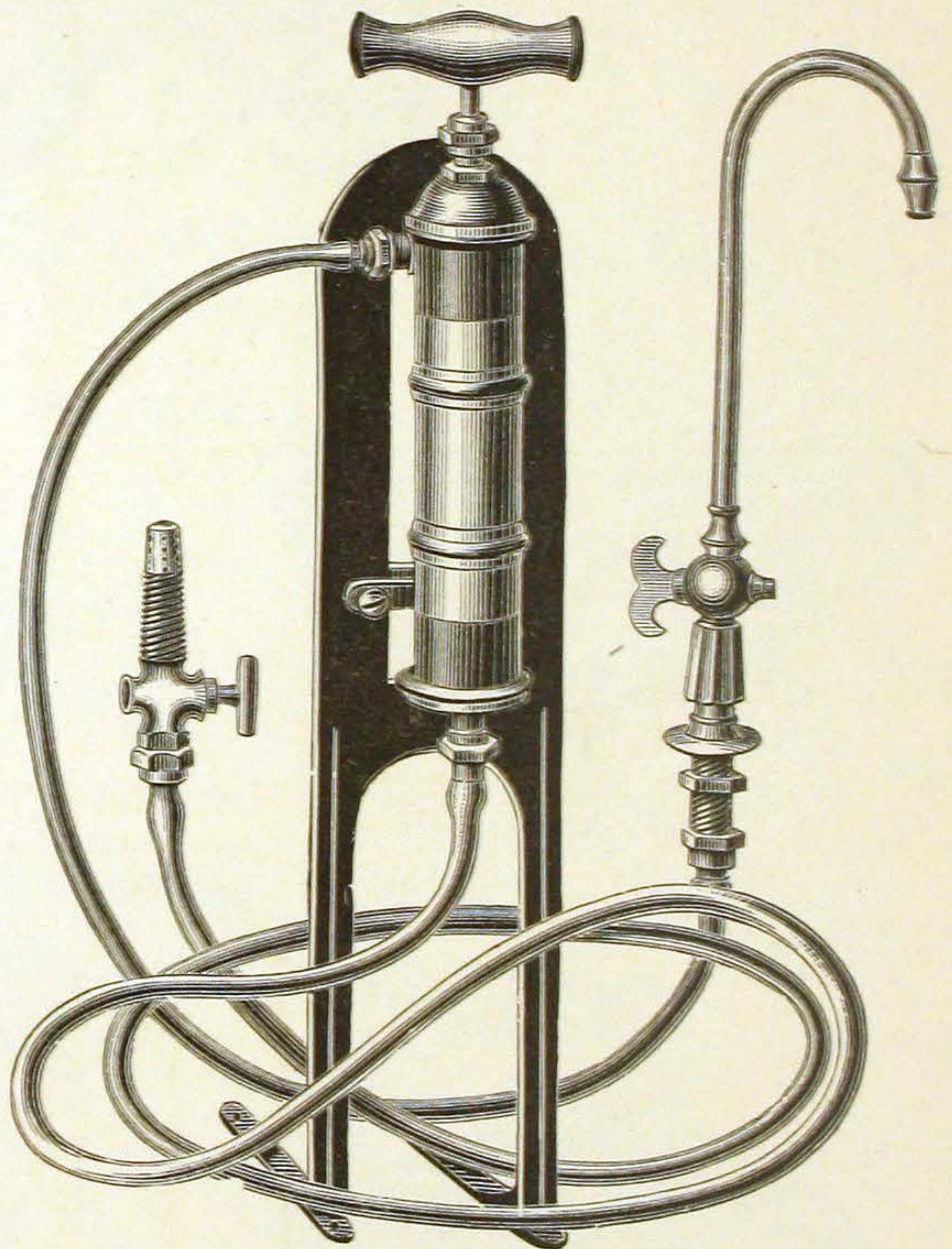
Complete, on Iron Stand, with  
Counter and Beer Cocks,  
and Lead Pipe.

**Fig. 829.**



With or without Iron Stand.

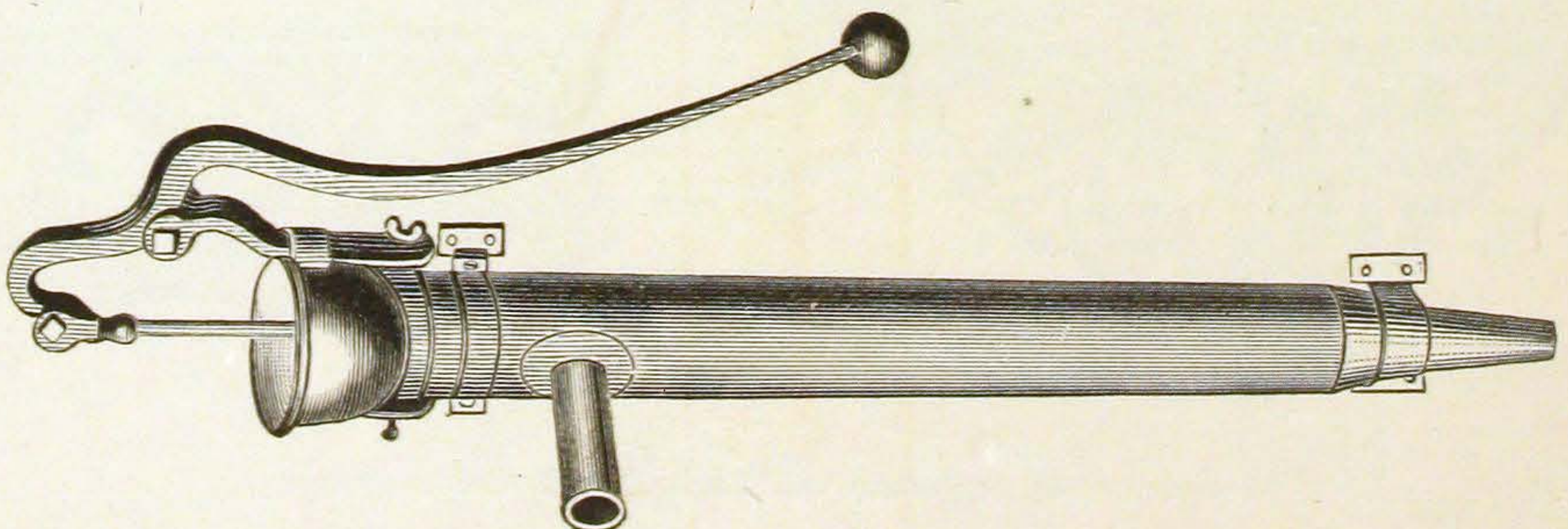
**Fig. 830.**



Finished and Plated Counter Cocks.

## COPPER CISTERN PUMP.

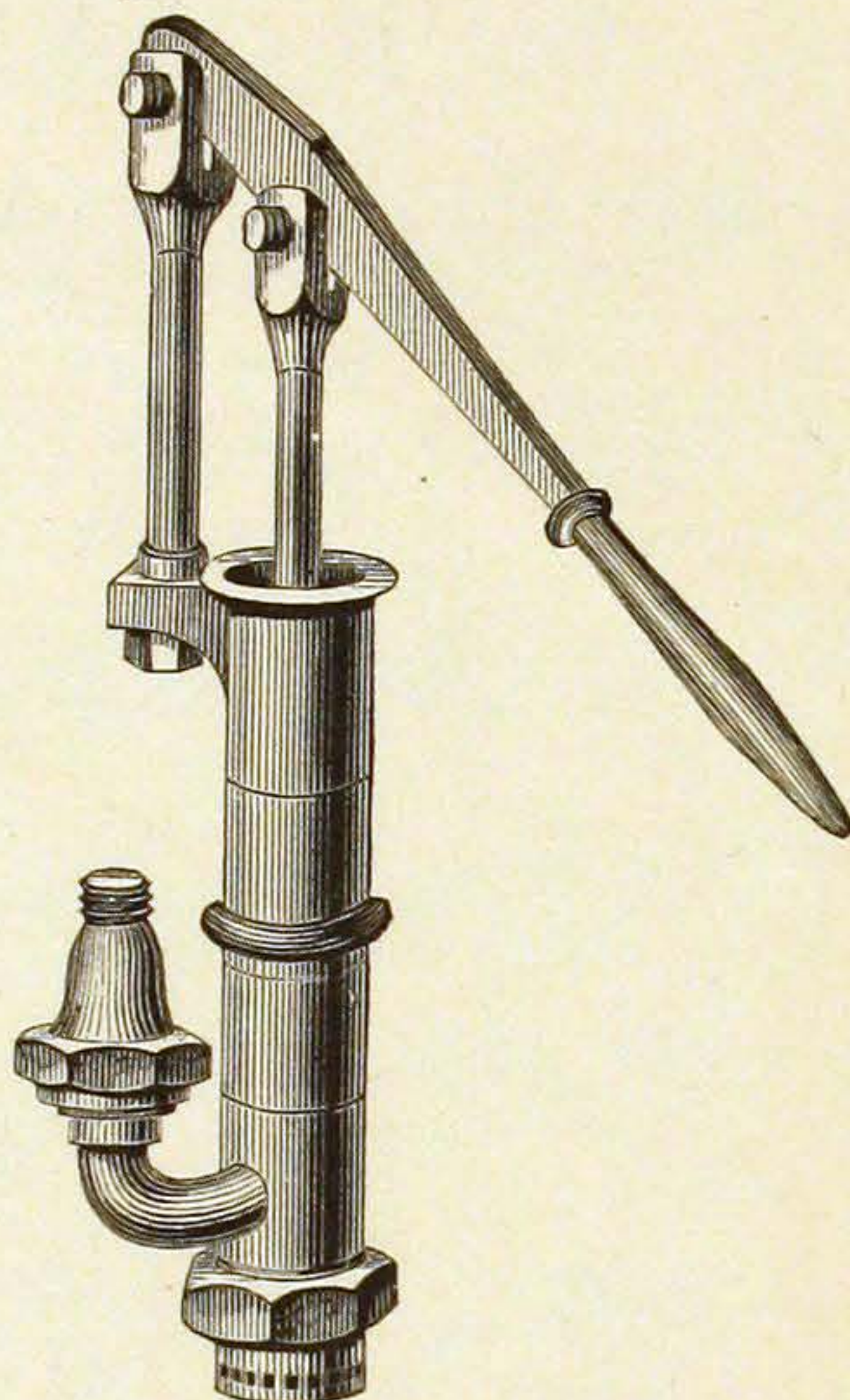
**Fig. 831.**





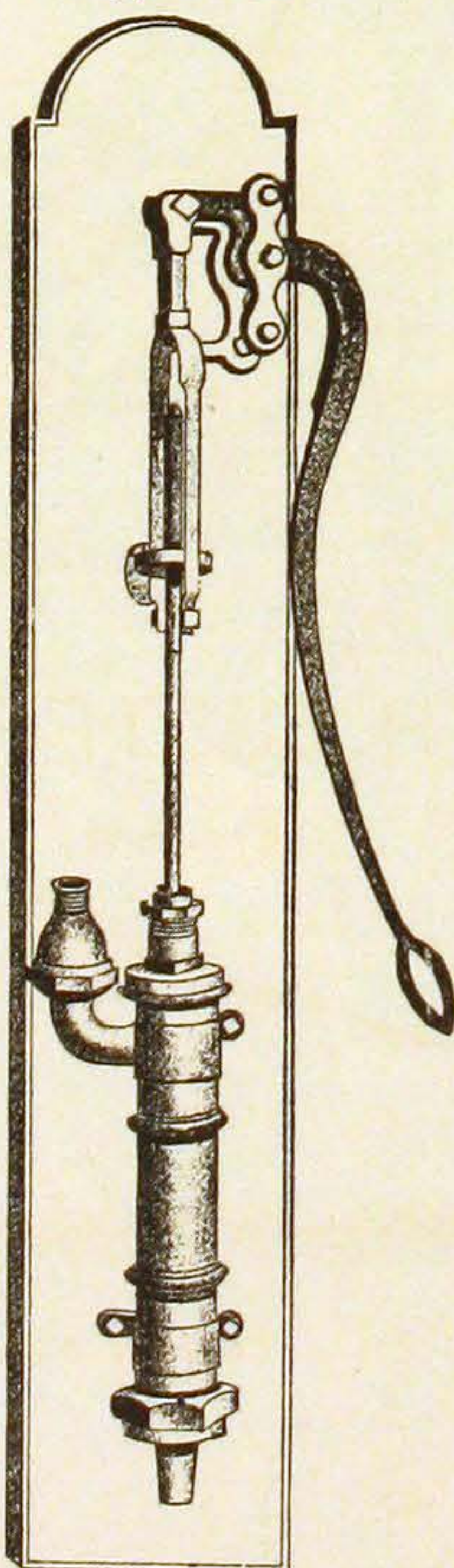
PLUMBERS' FORCE PUMP.  
STEAM METAL.

Fig. 832.



LIFT AND FORCE PUMP.  
STEAM METAL.

Fig. 833.

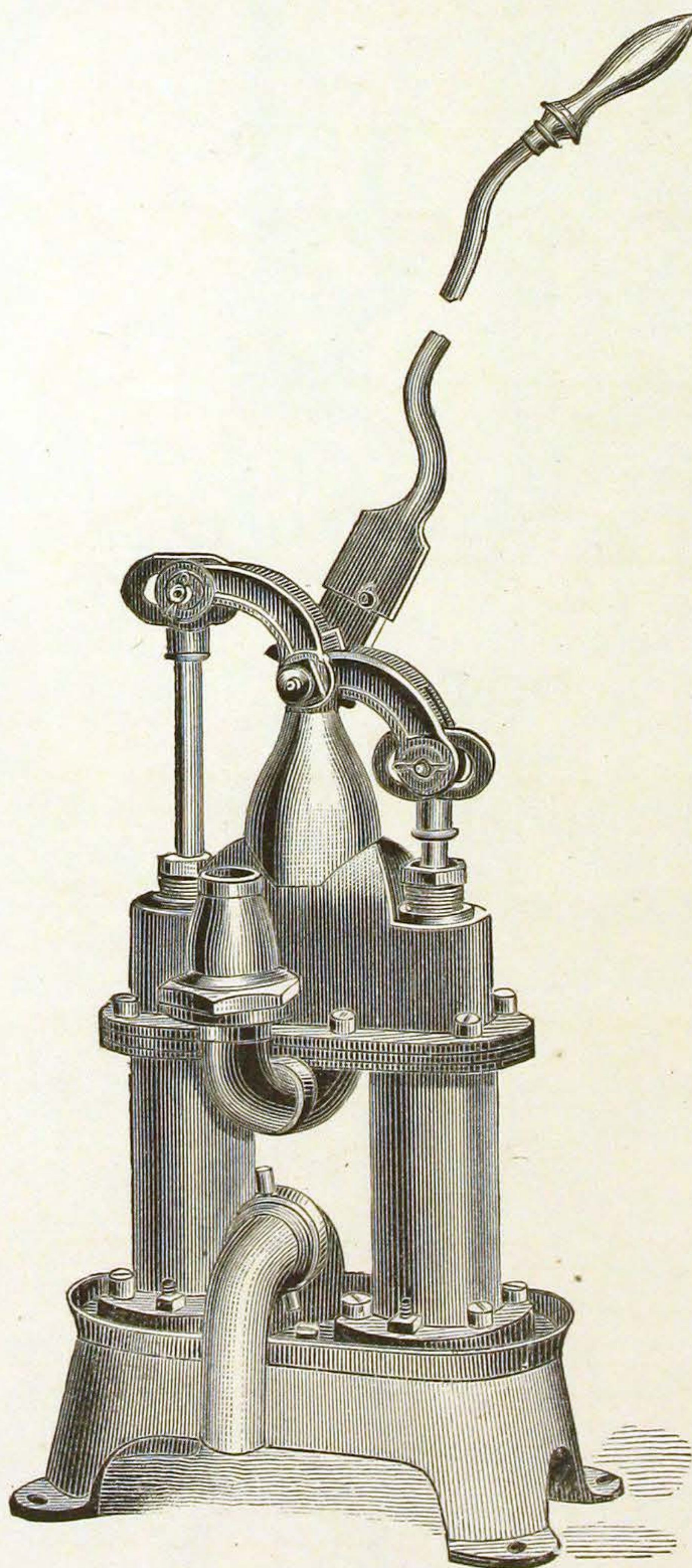




SHIP PUMP.  
DOUBLE CHAMBER.

PATENT.

Fig. 834.



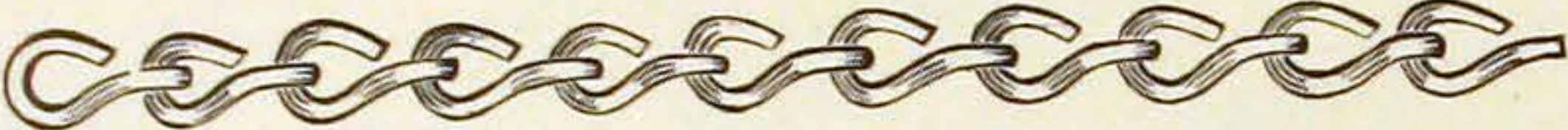









# CHAINS.

## SINGLE.




Fig. 835.

Wire Gauge.

	No. 20.
	No. 18.
	No. 17.
	No. 16.
	No. 15.
	No. 14.
	No. 12.
	No. 10.




## DOUBLE.

Fig. 836.

	No. 17.
	No. 15.
	No. 12.

## SAFETY.

Fig. 837.

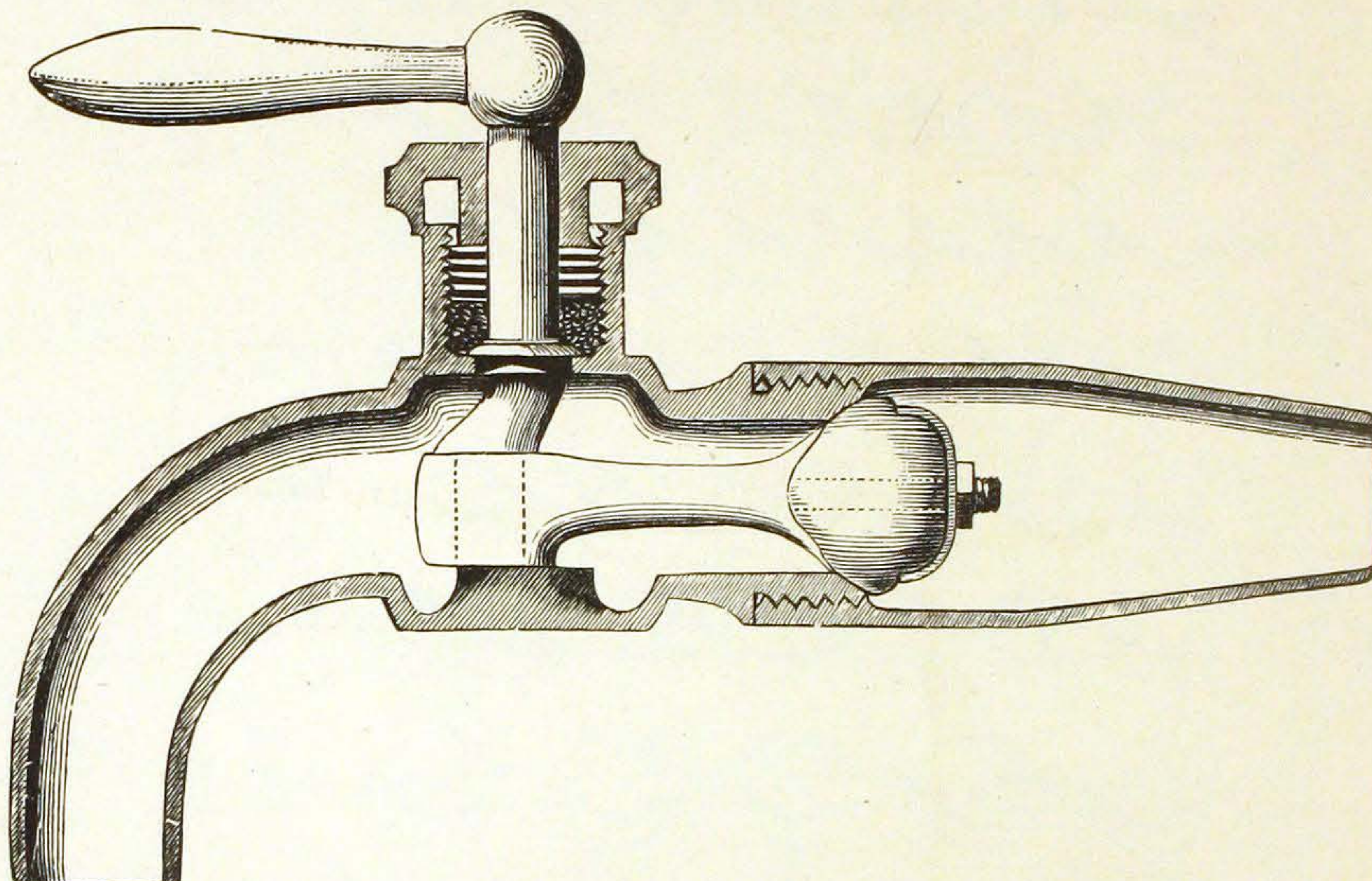
	No. 0.
	No. 1.
	No. 2.

Brass and Plated.



FULLER'S BRASS WORK, OF ALL KINDS.  
SECTIONAL VIEW OF PLAIN BIBB.

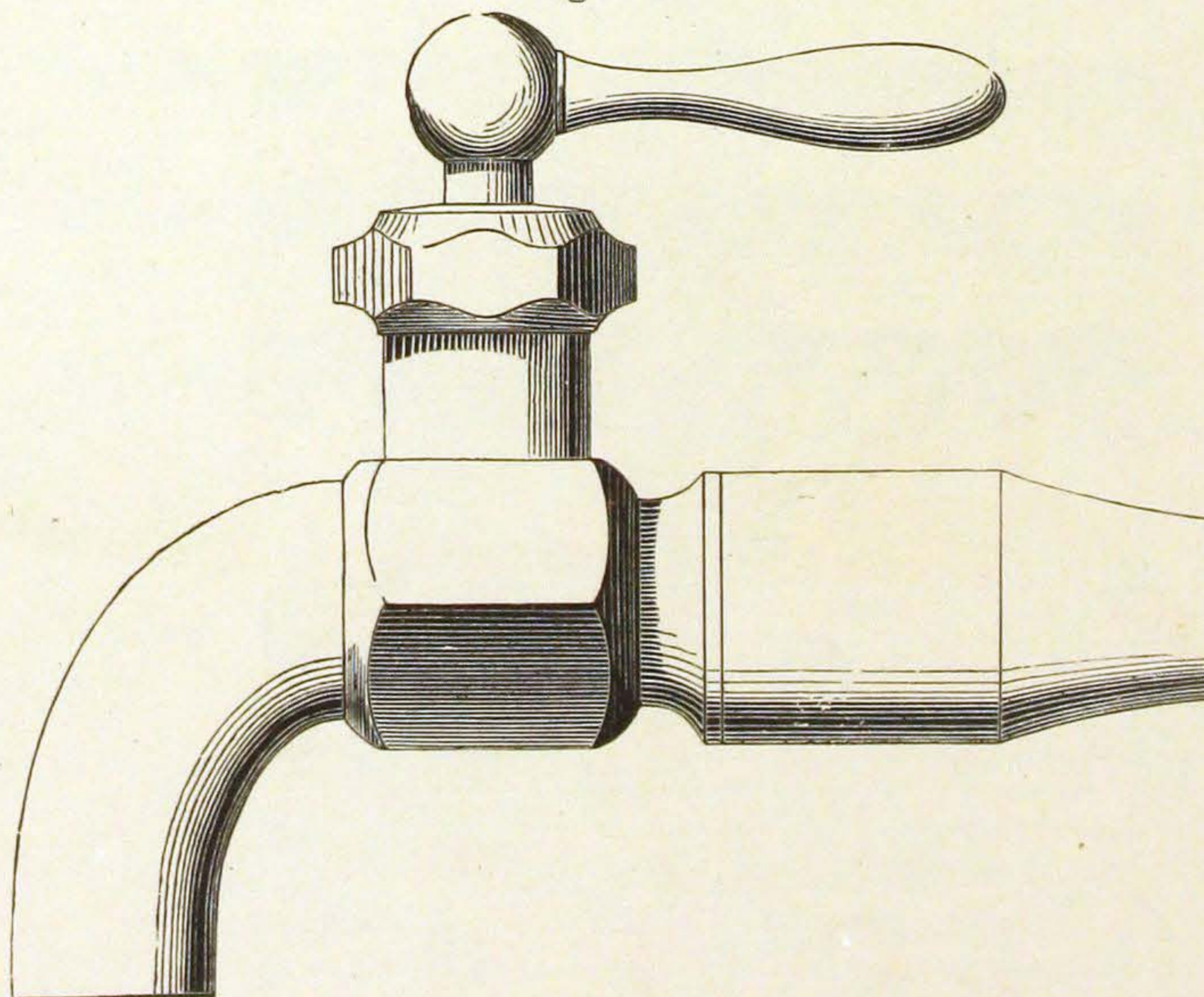
Fig. 838.



Finished and Plated.

PLAIN BIBB, HEXAGON CHAMBER,  
LEVER HANDLE.

Fig. 839.

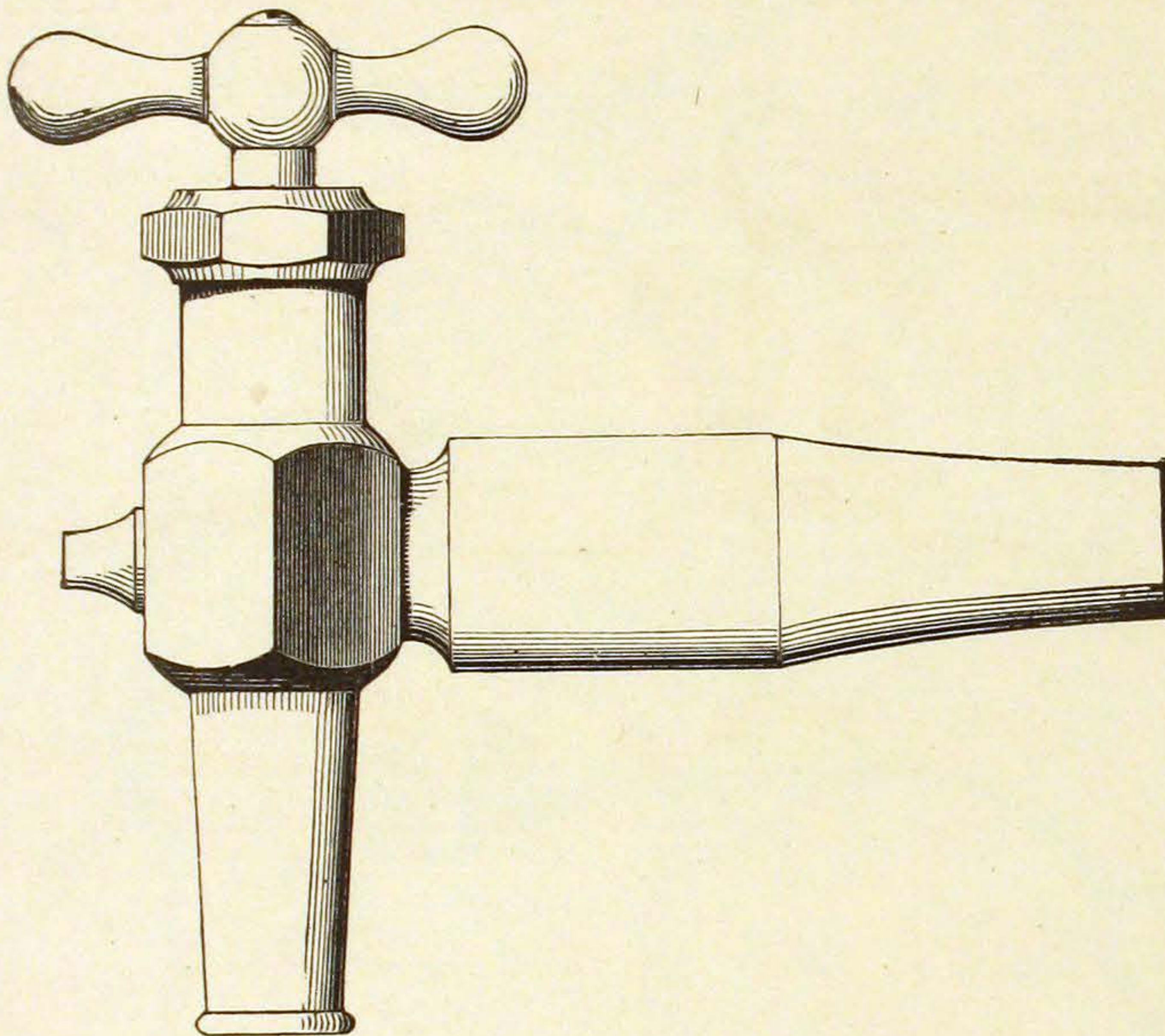


Finished and Plated.



## PLAIN UPRIGHT BIBB.

Fig. 840.

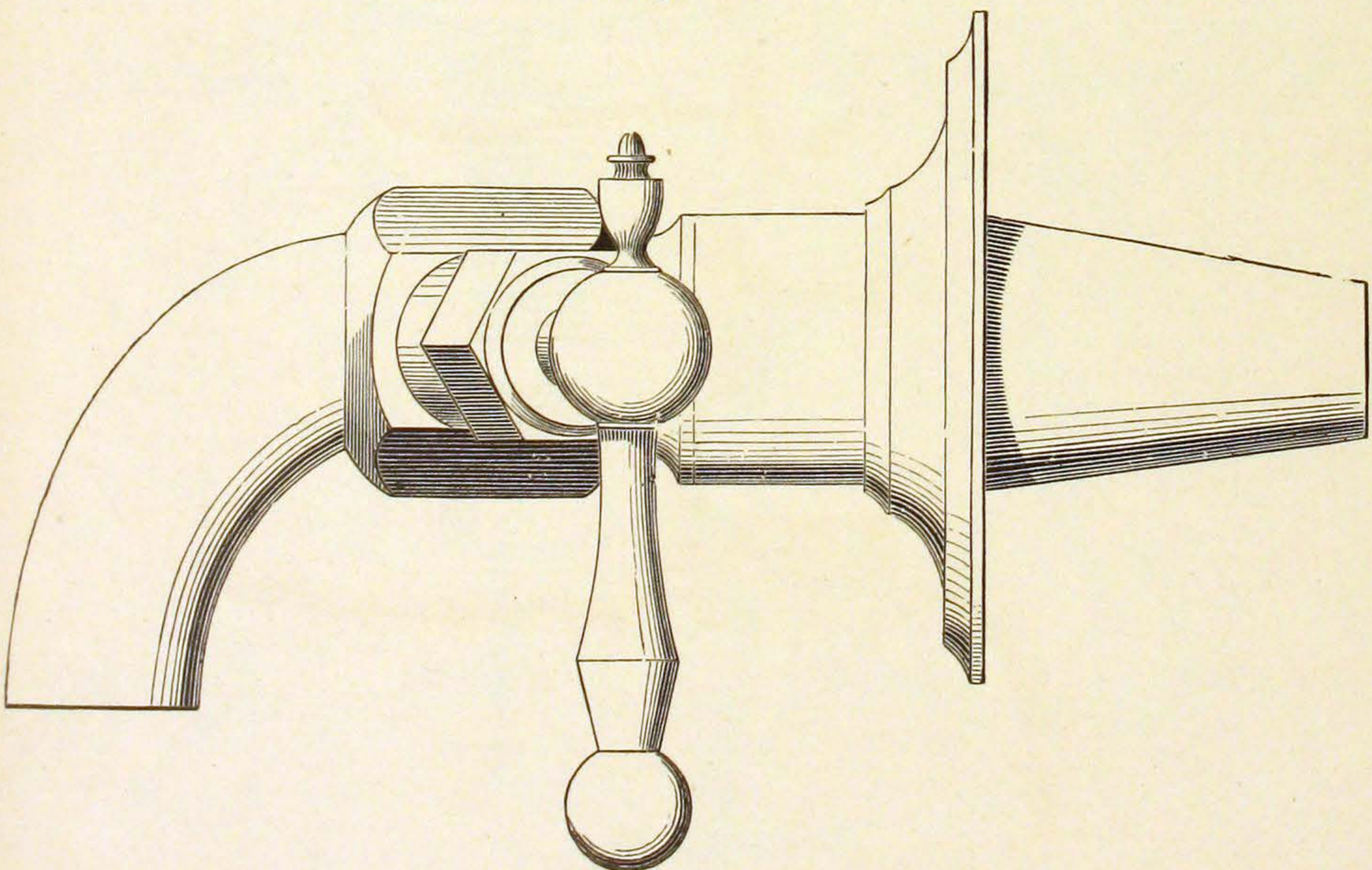


Finished and Plated.

## WASH TRAY BIBB.

Flange and Thimble. Fancy Handle.

Fig. 841.



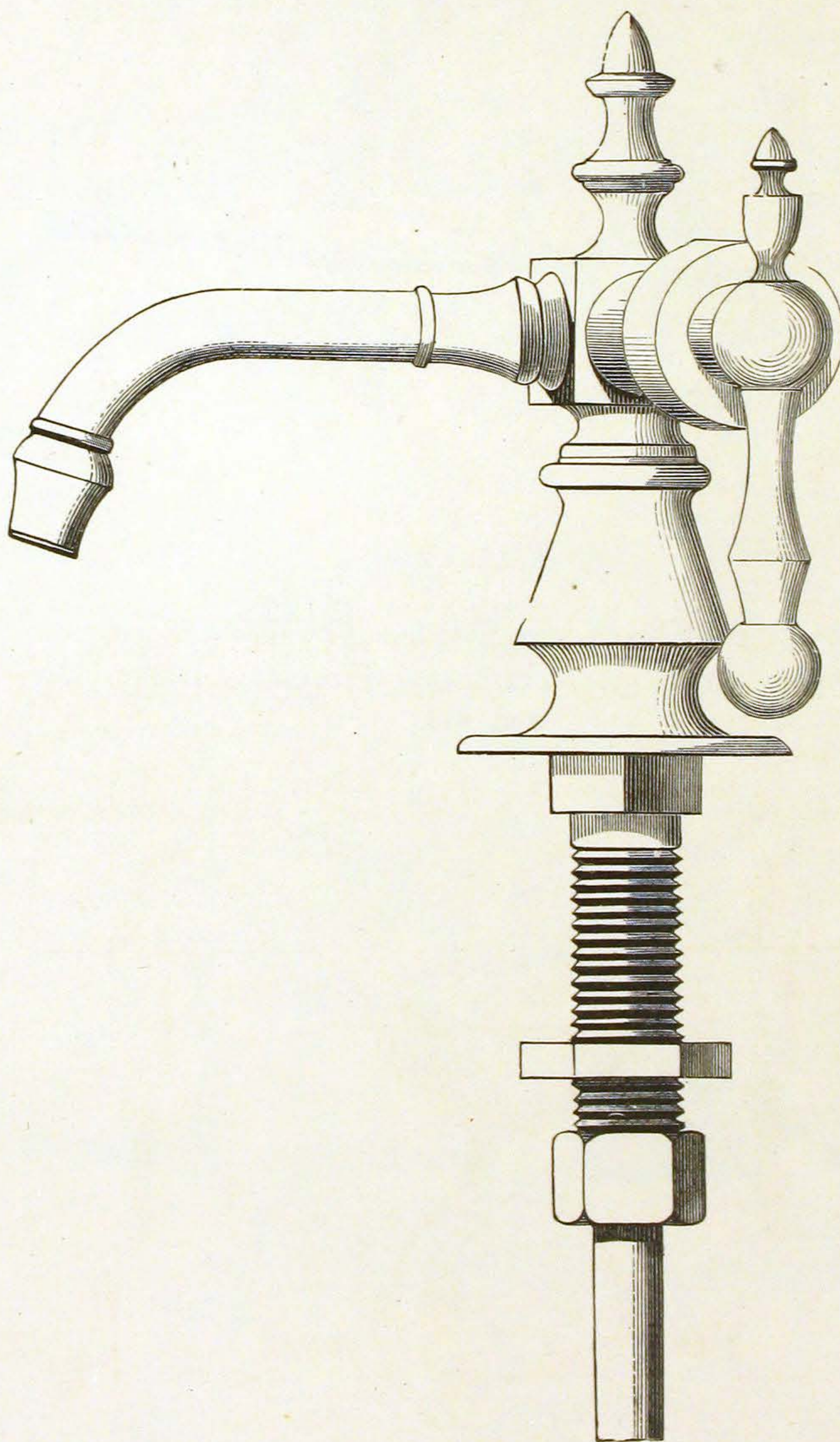
Finished and Plated.



## FULLER'S BRASS WORK, OF ALL KINDS.

## No. 3, Basin Cock.

Fig. 842.



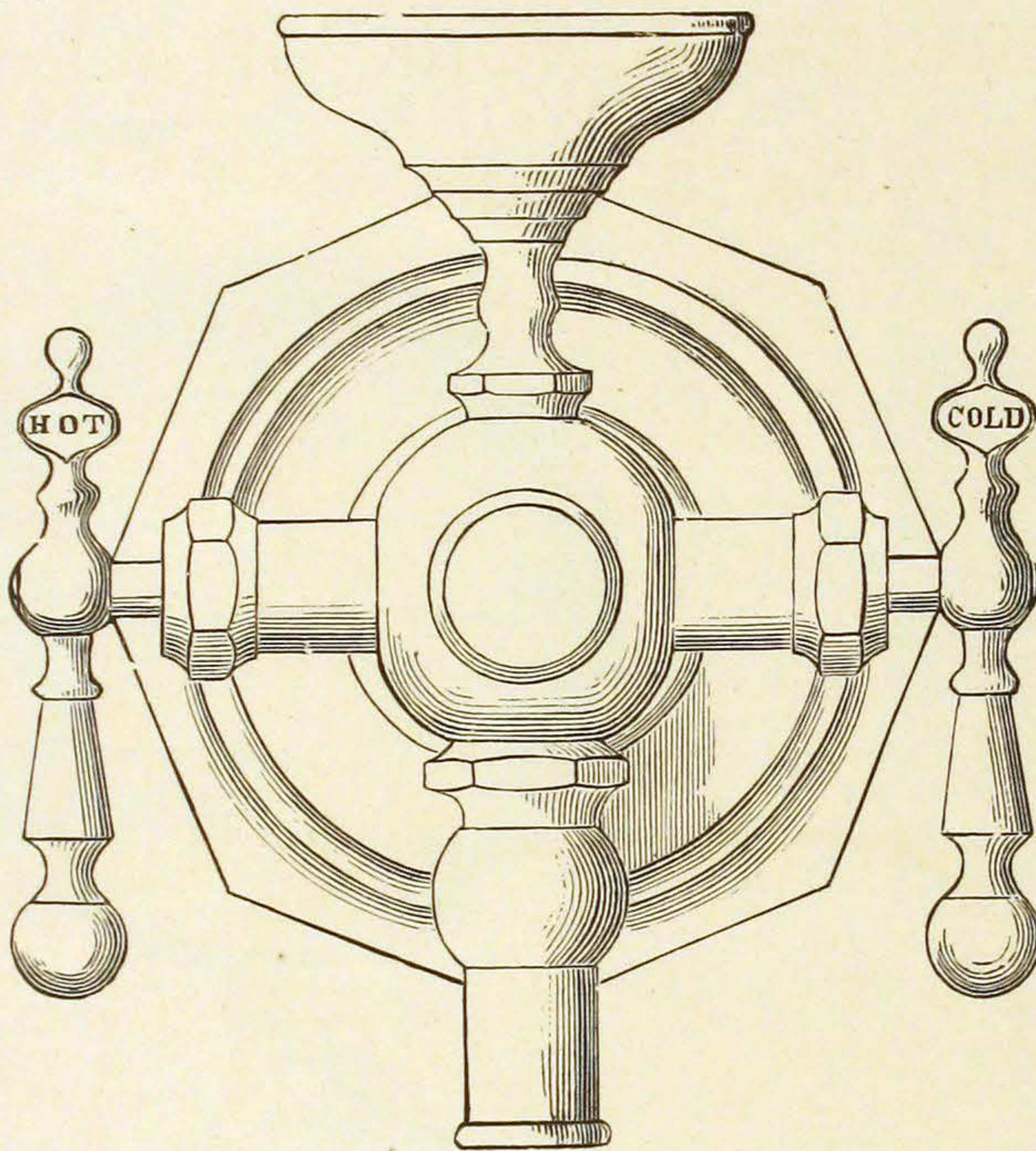
Finished and Plated.



FULLER'S BRASS WORK, OF ALL KINDS. 235

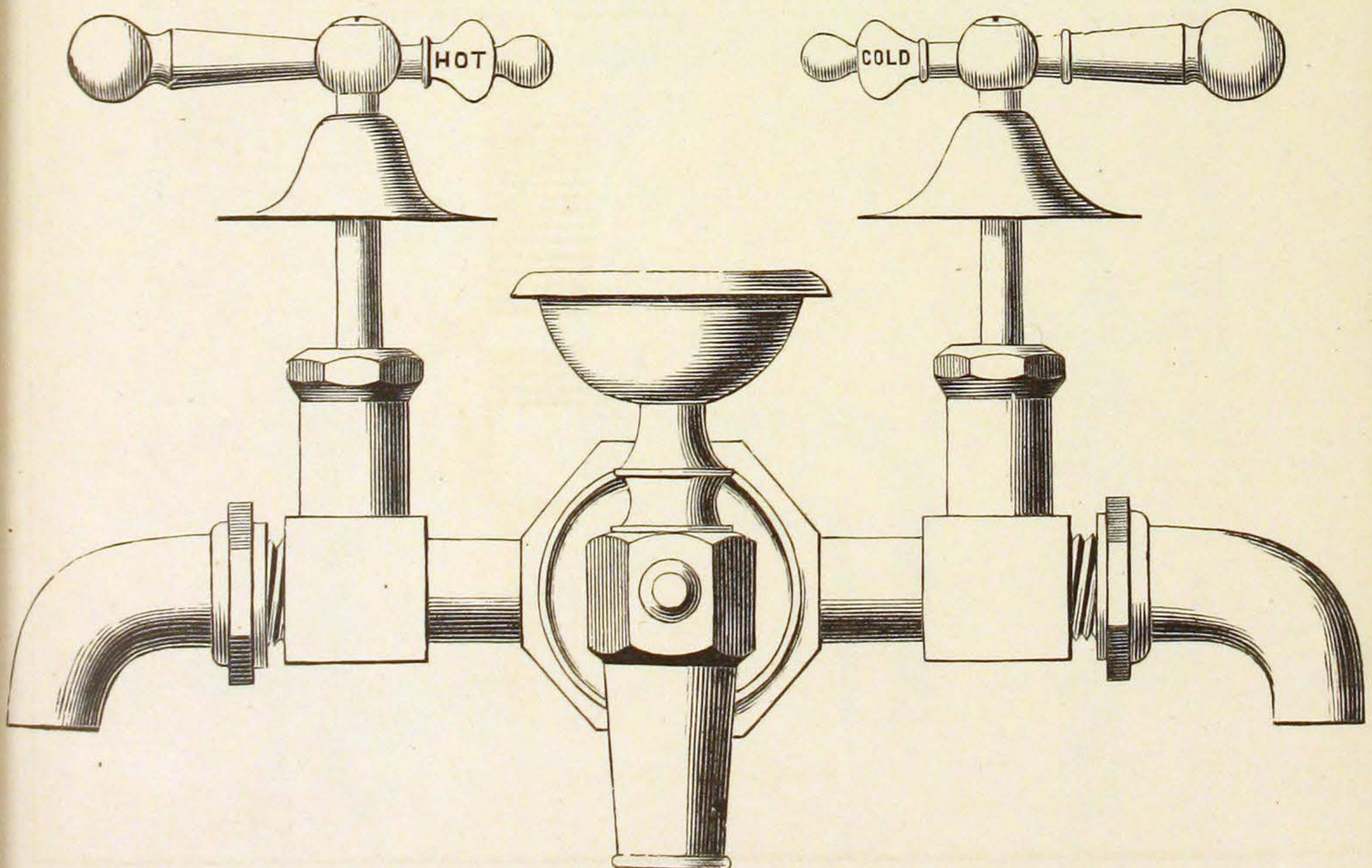
No. 1, Combination Bath Bracket.  
For Hot and Cold Water, Complete with  
Rubber Hose and Shower.

Fig. 843.



No. 3, Combination Bath Cock.  
With Hose and Shower for Foot of Bath Tub.

Fig. 844.



Finished and Plated.

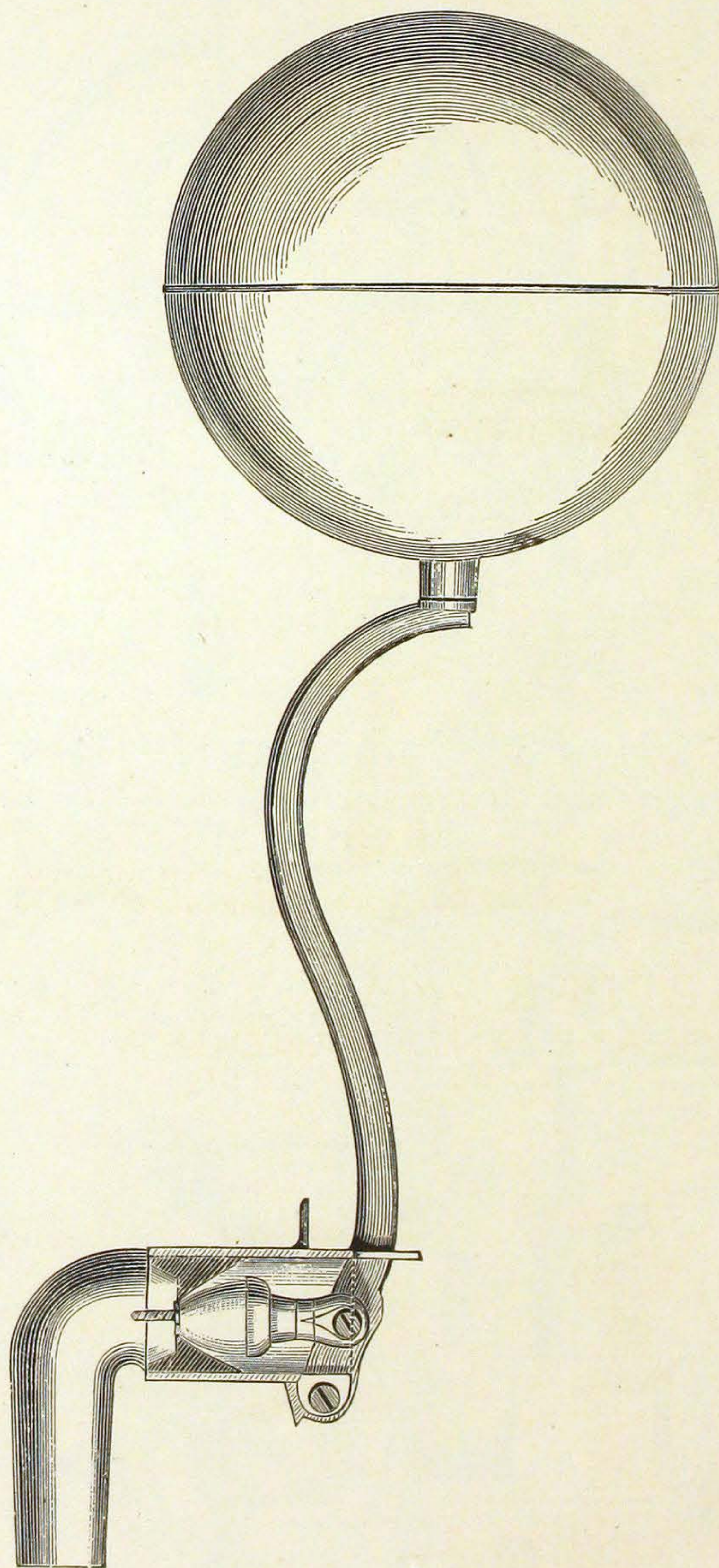


## FULLER'S BRASS WORK, OF ALL KINDS.

## PATENT TANK REGULATOR.

THE BEST ANTI-FRICTION BALL COCK EVER INVENTED.

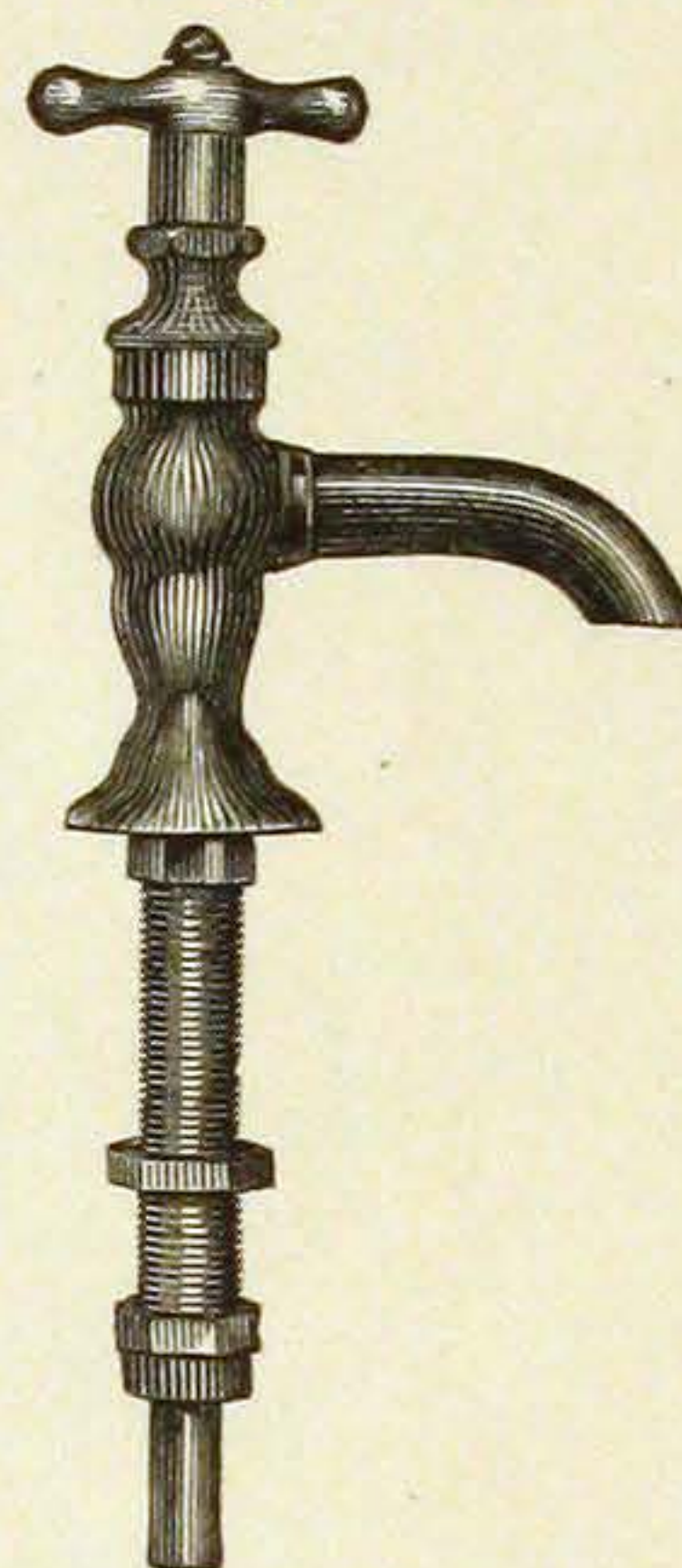
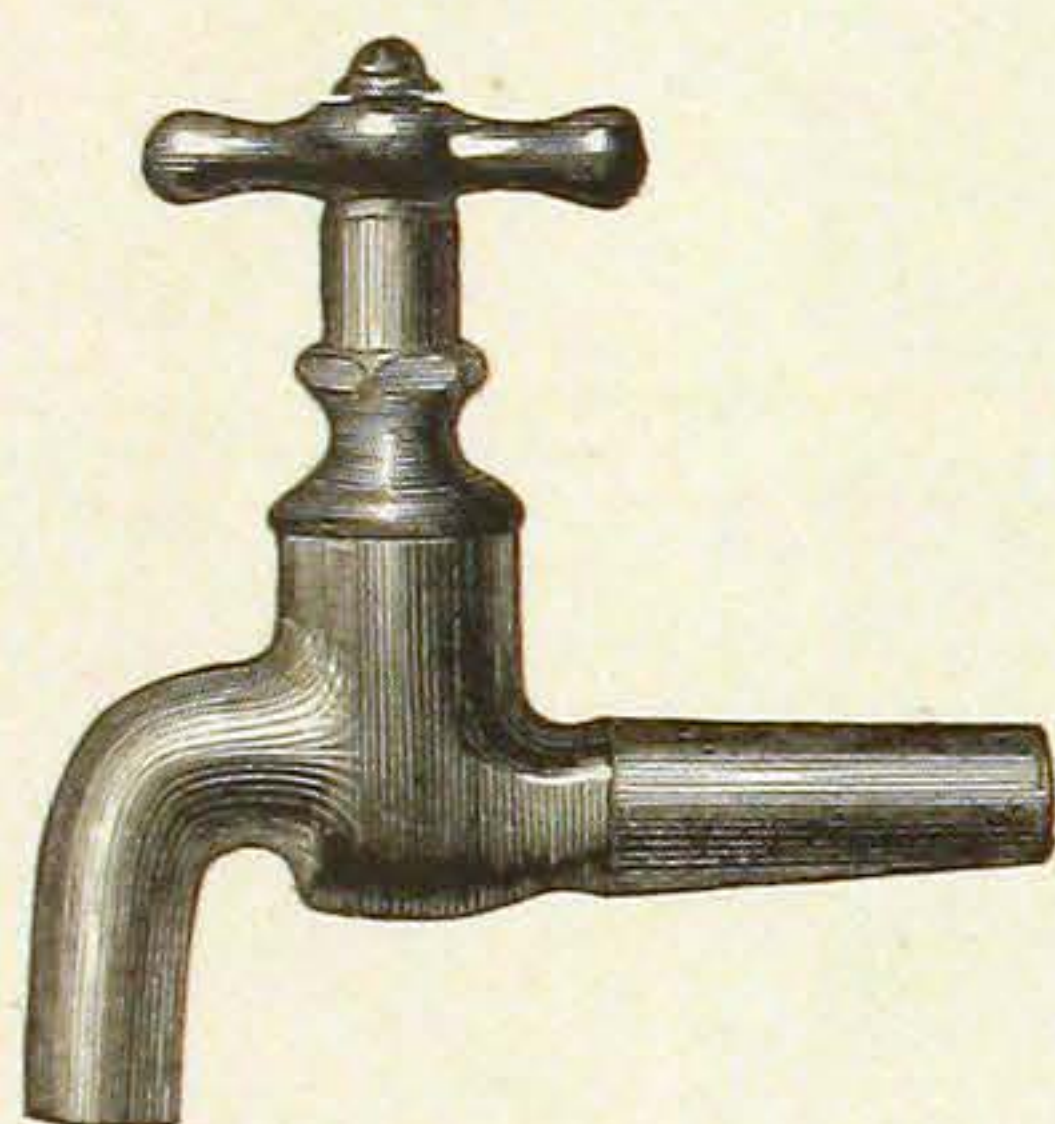
Fig. 845.



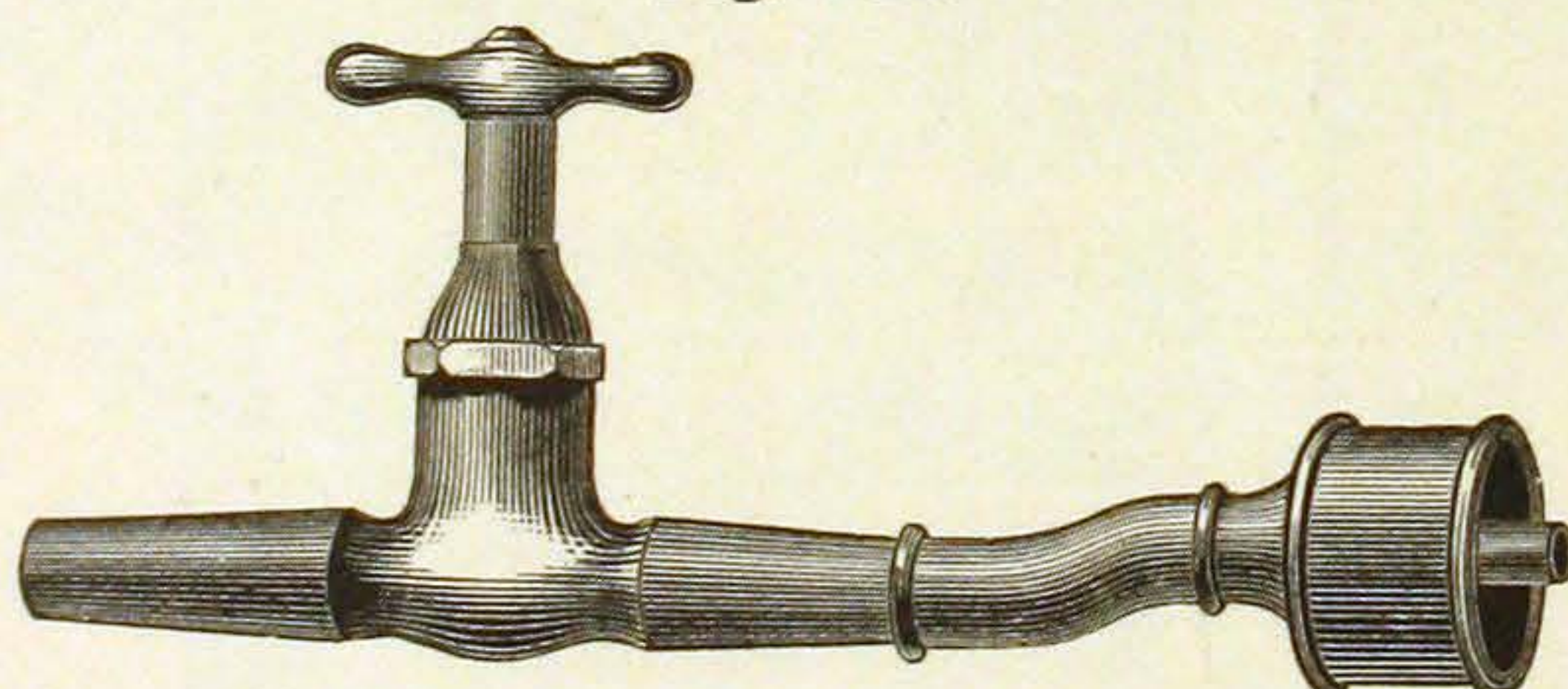
Can be used in Large or Small Tanks.



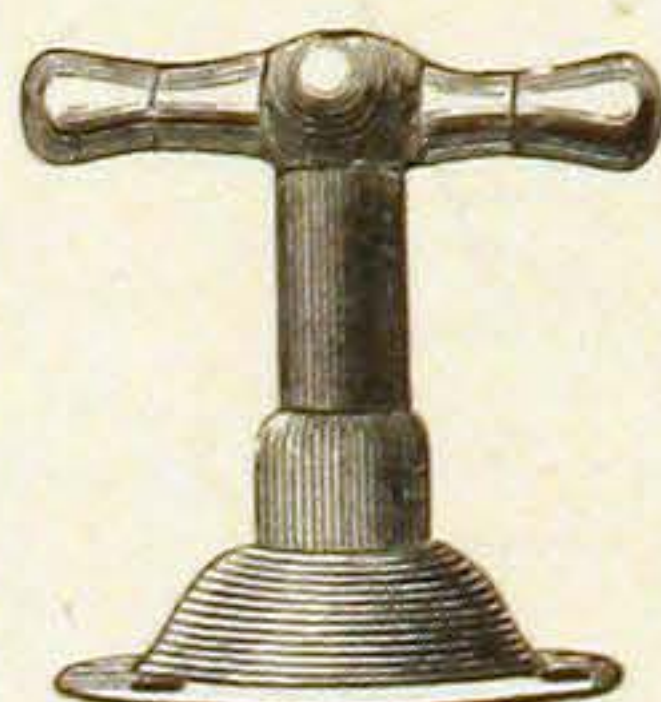
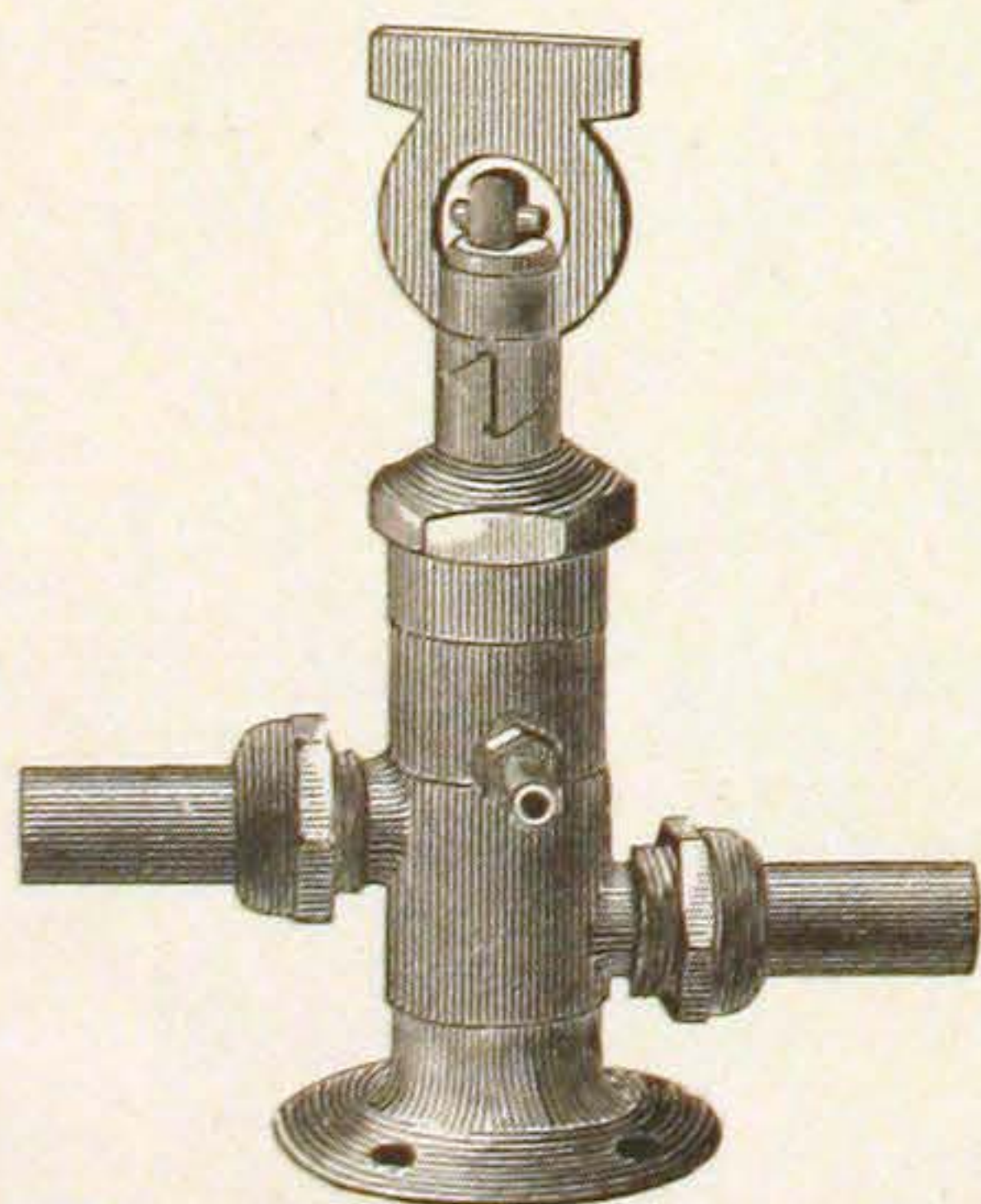
BOSTON SELF-CLOSING WORK.  
 "ZANES' PATENT."  
 PLAIN BIBB. BASIN COCK.  
 Fig. 846. Fig. 847.



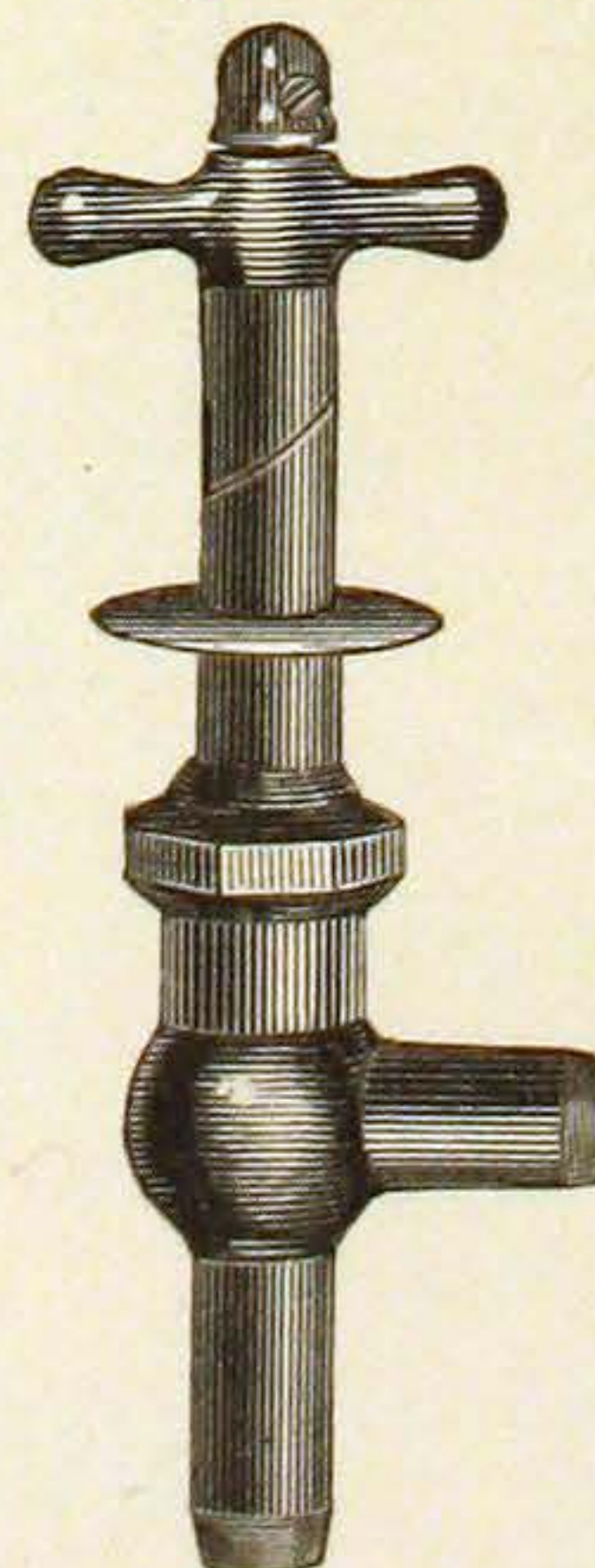
URINAL COCK.  
 Fig. 848.



HOPPER VALVE.  
 WITH PLATE AND HANDLE.  
 Fig. 849.



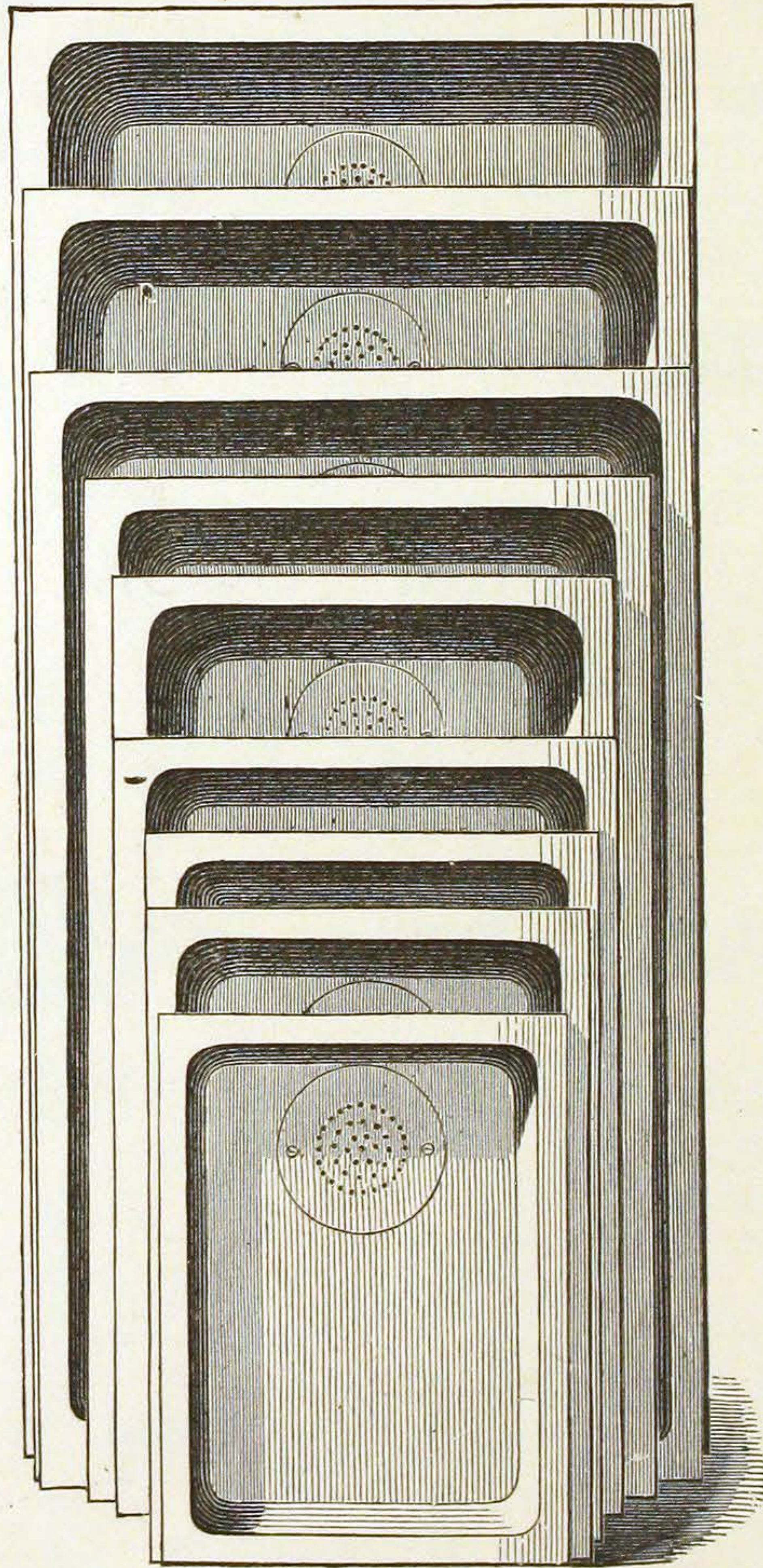
HOPPER COCK.  
 Fig. 850.





## SQUARE SINKS.

Fig. 851.



Plain, Enameled and Galvanized.

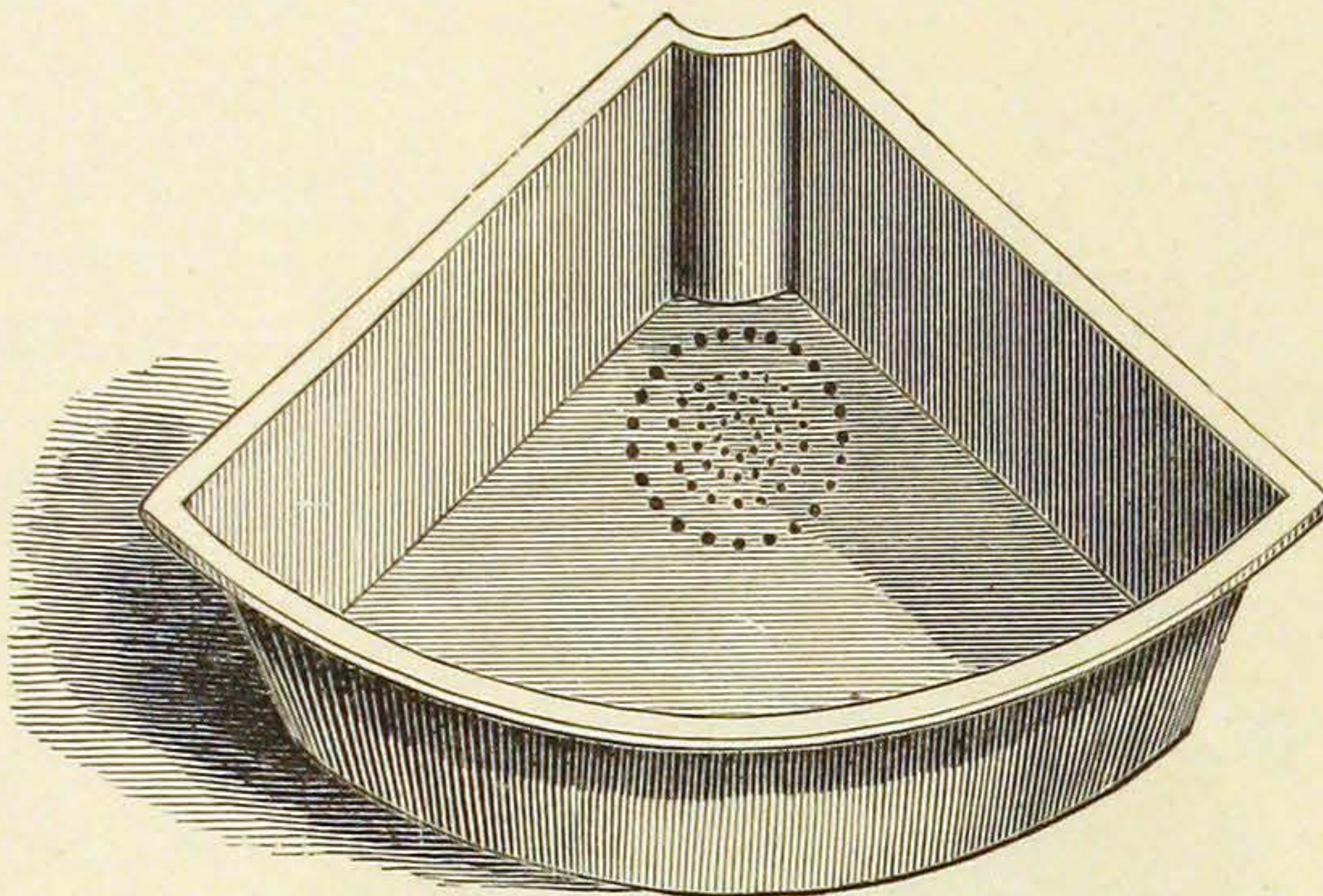
For sizes, see Price List.



# CORNER SINKS.

239

Fig. 852.

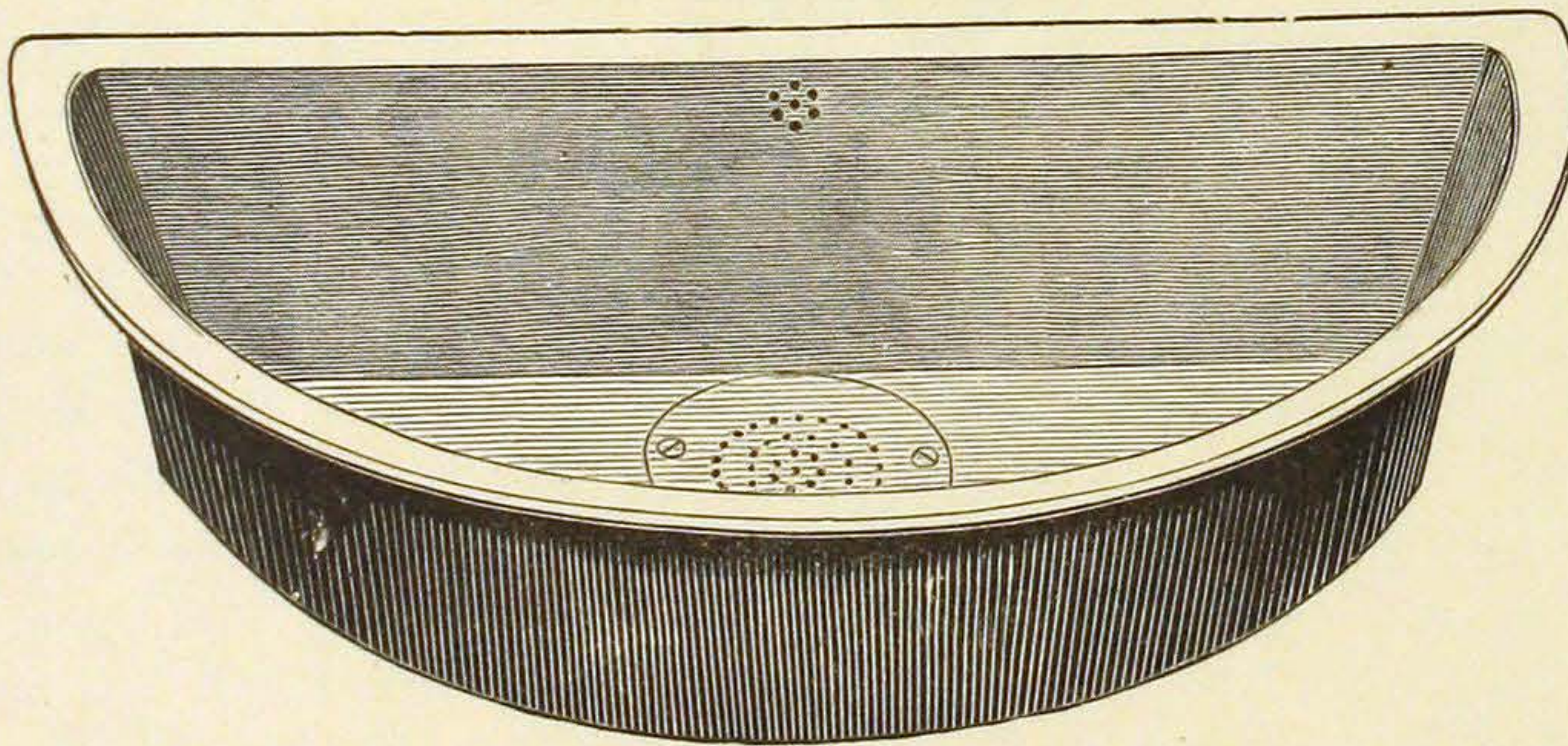


Plain, Galvanized and Enameled.

No.	SIDE.	FRONT.	DEPTH.	No.	SIDE.	FRONT.	DEPTH.
1	17 in.	25 in.	6 in.	3	22 in.	31 in.	6½ in.
2	20 in.	28 in.	6 in.	4	18½ in.	25 in.	12 in.

# HALF CIRCLE SINKS.

Fig. 853.

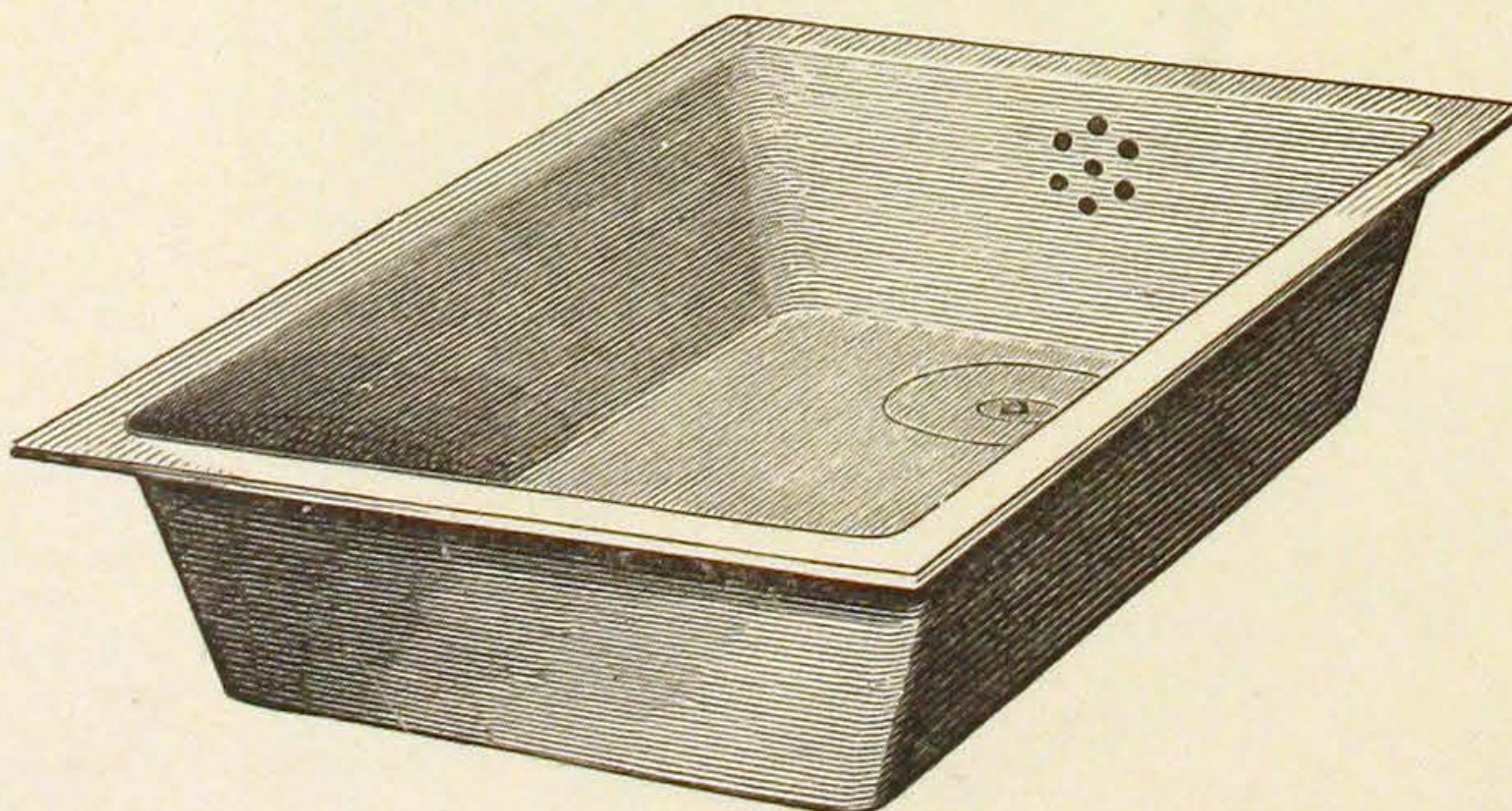


Plain, Galvanized and Enameled.

No.	BACK.	WIDTH.	DEPTH.	No.	BACK.	WIDTH.	DEPTH.
1	24 in.	14 in.	6 in.	3	28 in.	16 in.	8 in.
2	27 in.	14 in.	6 in.	4	31½ in.	17 in.	6 in.

# SINKS. WITH PATENT OVERFLOW.

Fig. 854.

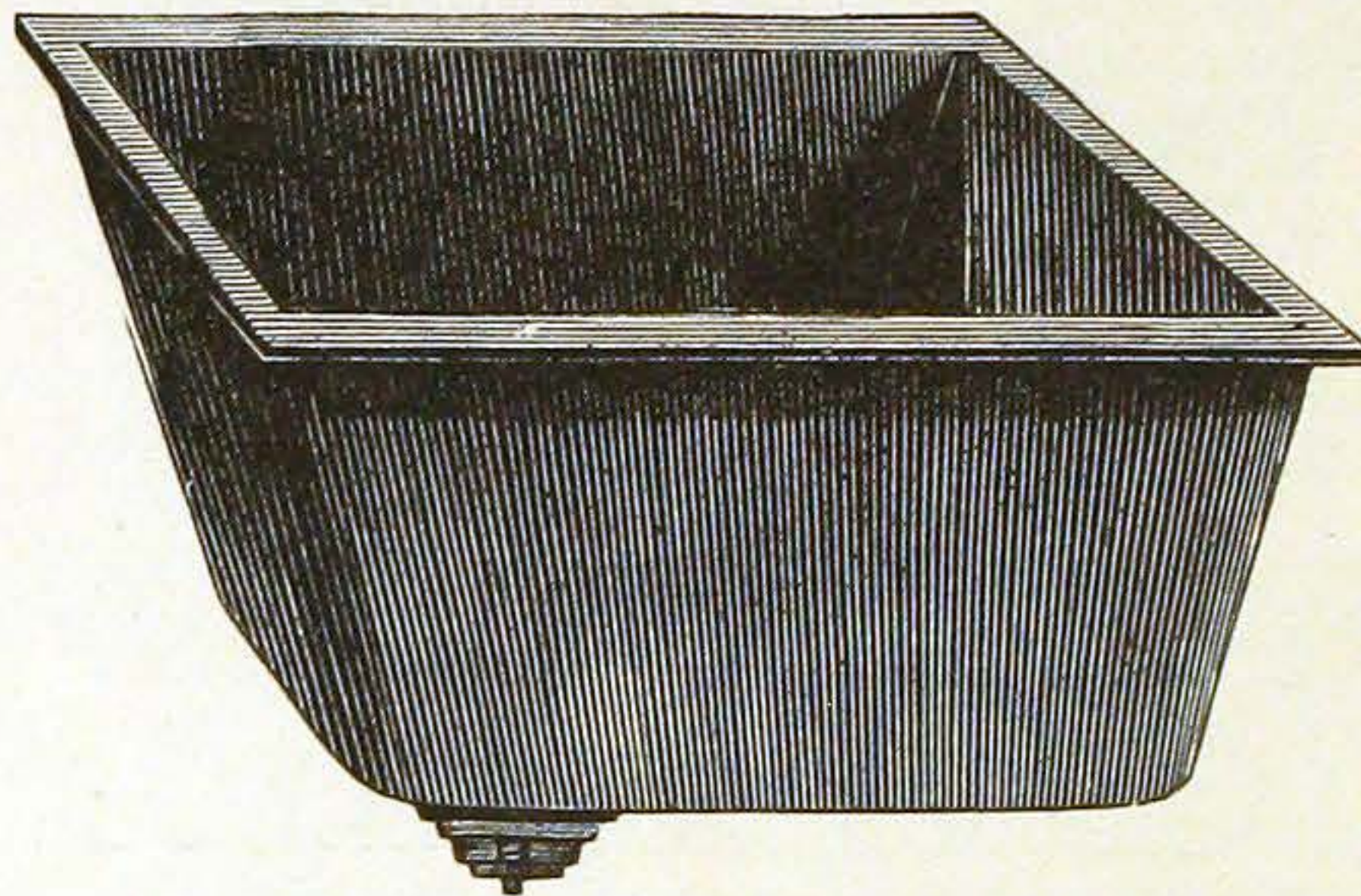


Square, Corner and Half Circle, Plain, Galvanized and Enameled.

☞ Made same sizes as Plain Sinks.



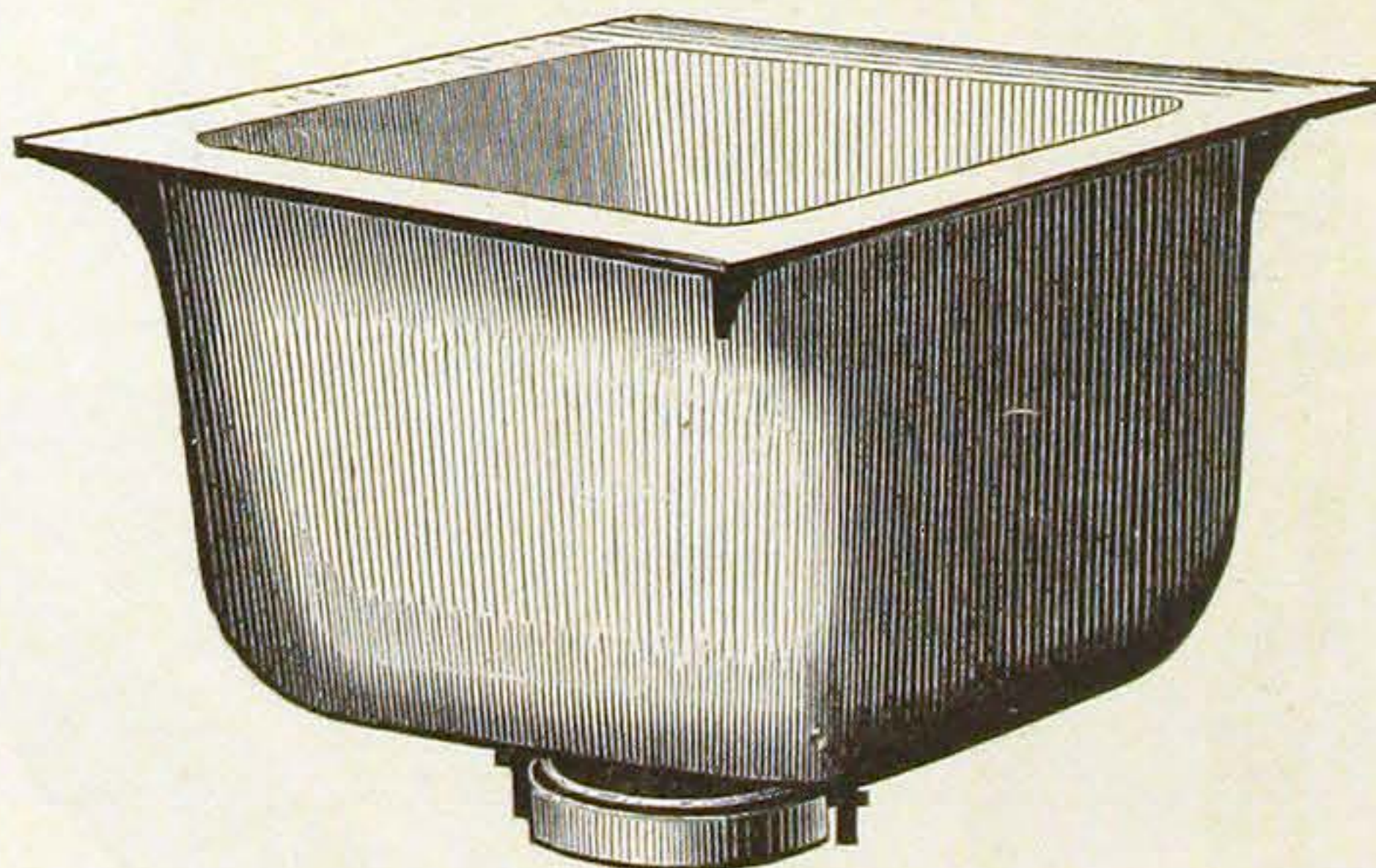
## SLOP SINKS.

**Fig. 855.**

**Plain, Galvanized and Enameled.**

16 x 16, 10 inch deep.  
20 x 14, 12 inch deep.  
20 x 16, 12 inch deep.  
24 x 20, 12 inch deep.

23 x 15, 15 inch deep.  
36 x 21, 12 inch deep.  
36 x 21, 16 inch deep.  
48 x 20, 17 inch deep.

**Fig. 856.**

**Four Inch Outlet, Plain, Galvanized and Enameled.**

22 x 20, 12 inch deep.



SINK LEG.

Fig. 857.



SQUARE SINK.  
FITTED WITH LEGS.

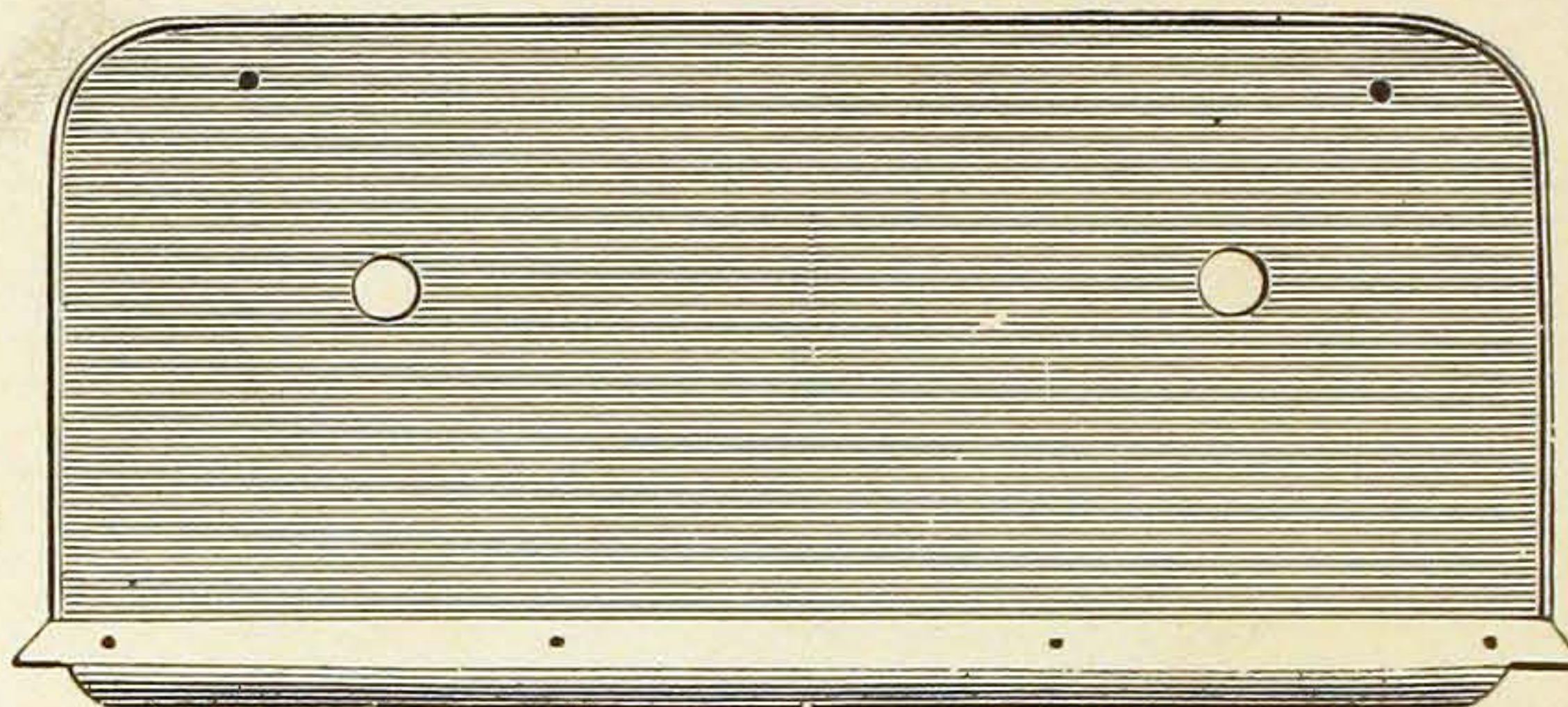
Fig. 858.





## BACK FOR SINKS.

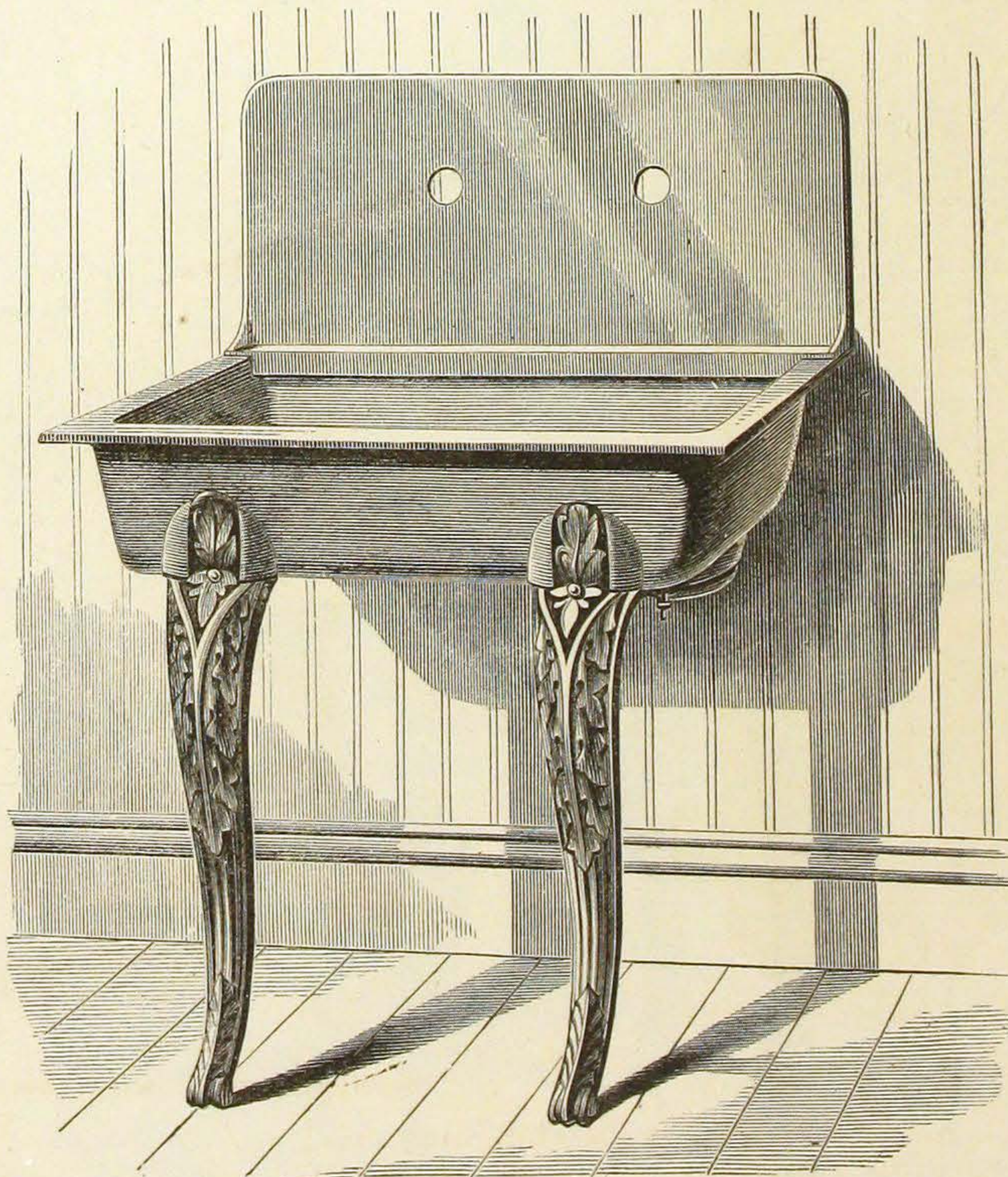
Fig. 859.



Made to fit Sinks of all sizes. They make a very neat finish and prevent the water from soiling the walls.

## SQUARE SINK.

Fig. 860.



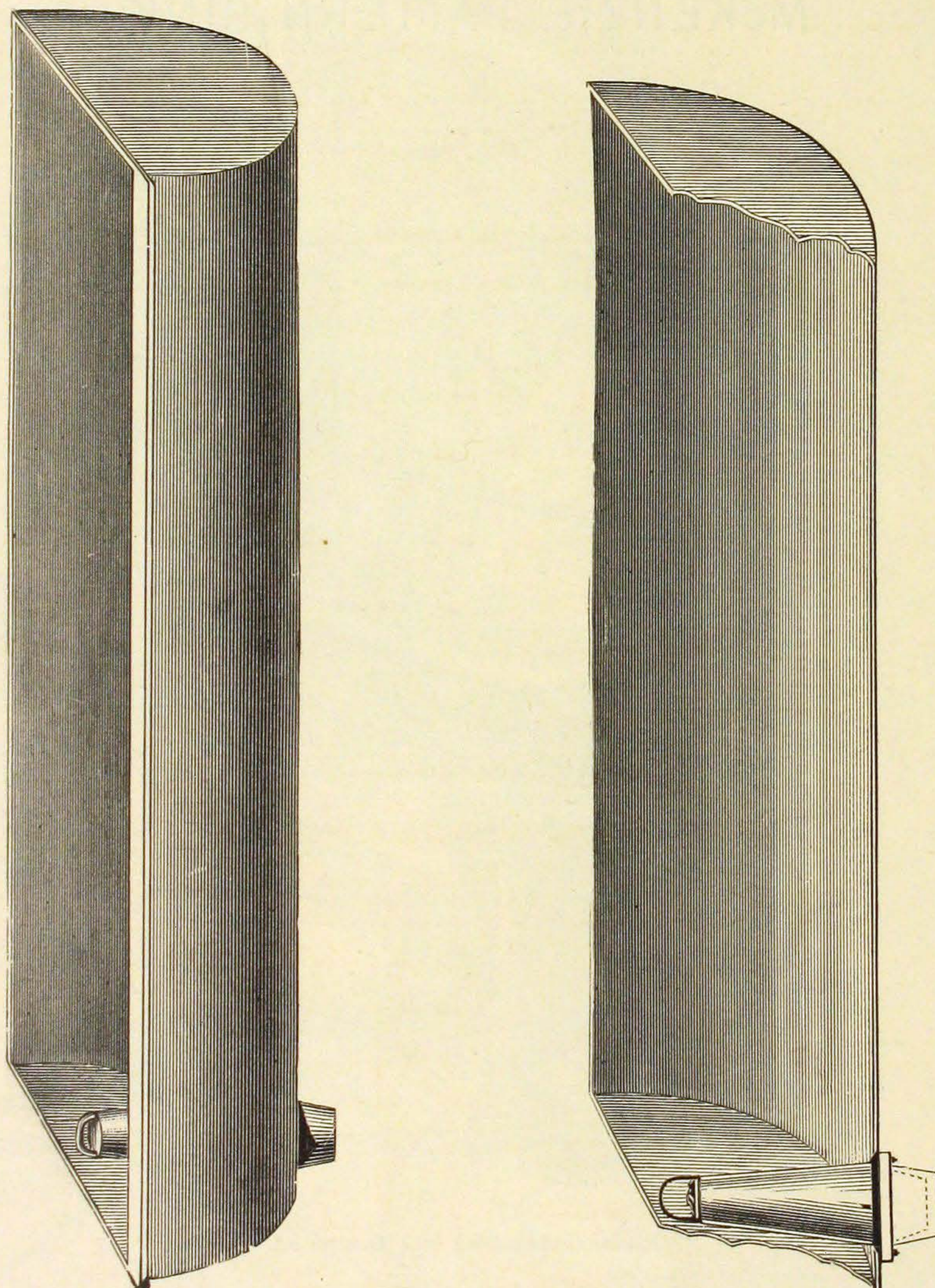
Fitted with Legs and Old Style Back.

As will be observed by above cut, only two legs are required when Sinks are set against the wall.



# NO. 2, PRIVY SINK. WITH OVERFLOW PLUG.

Fig. 861.



Sectional cut, showing overflow plug.

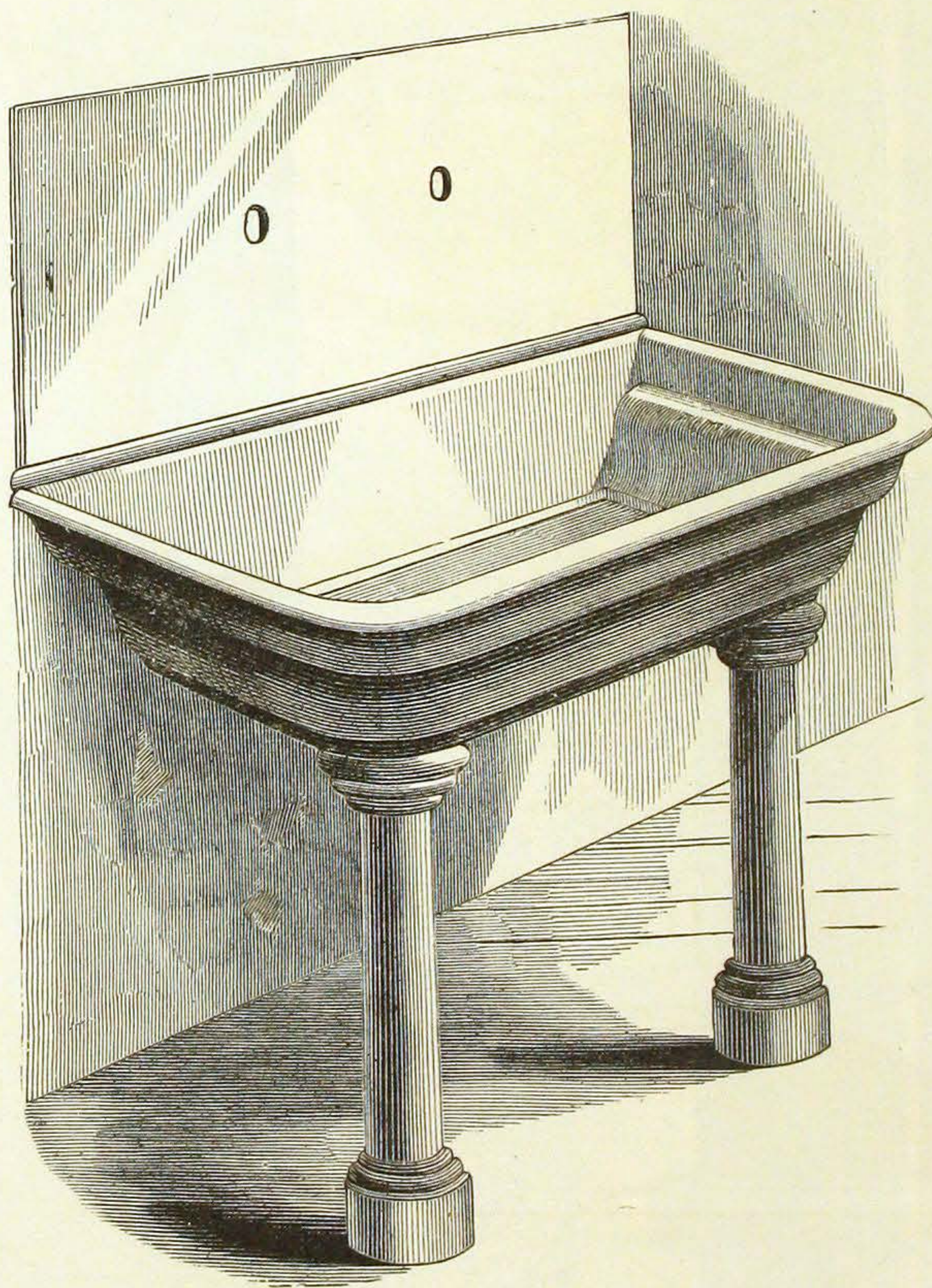
For a double row of seats we make the following sizes :

Length.	Width.	Length.	Width.
6 feet.	31 inches.	10 feet.	31 inches.
7 feet.	31 inches.	11 feet.	31 inches.
8 feet.	31 inches.	12 feet.	31 inches.
9 feet.	31 inches.		



## McKENZIE PATTERN SINK.

Fig. 862.



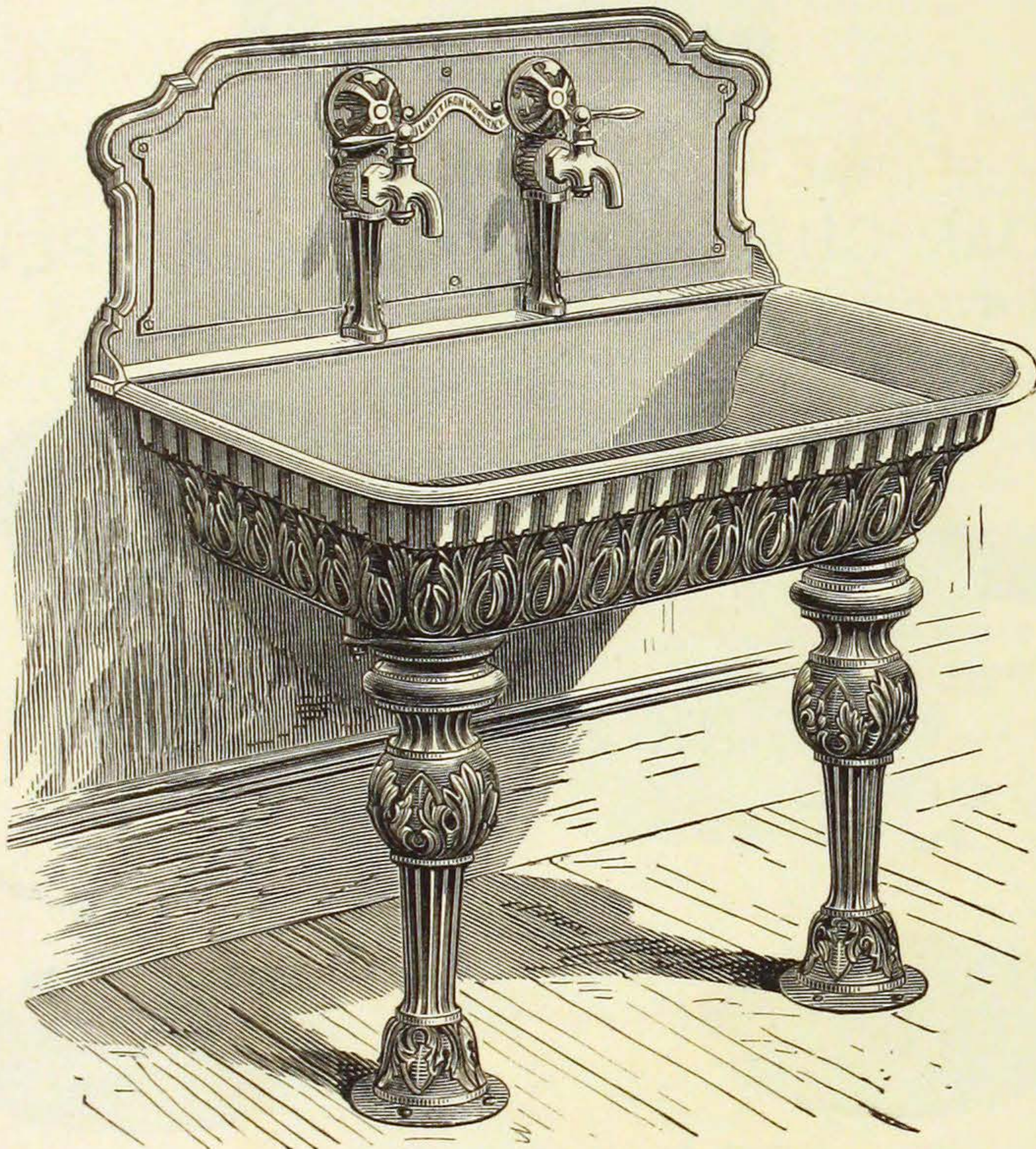
Plain, Galvanized and Enameled.

4 sizes.



## DEMAREST PATTERN SINK.

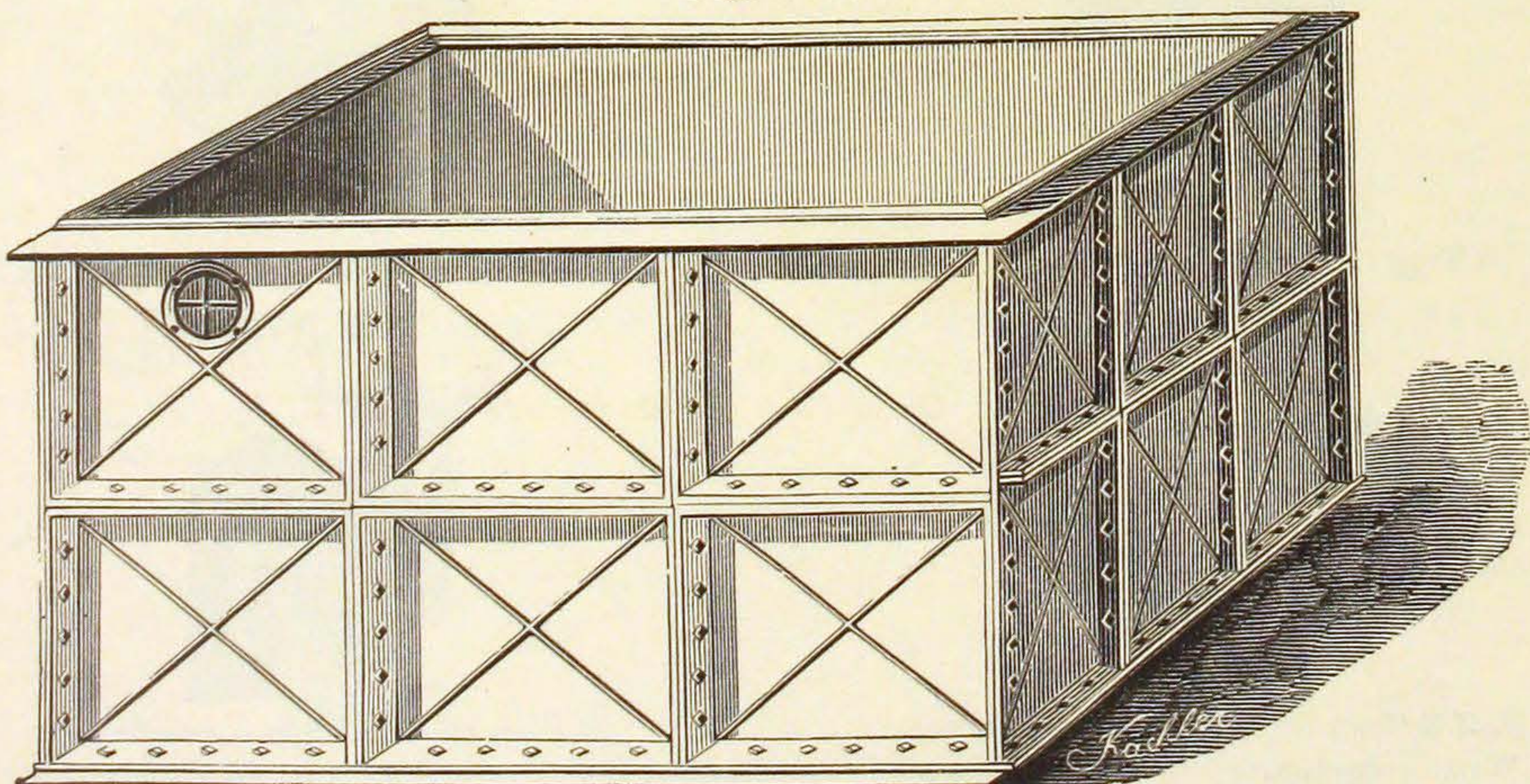
Fig. 863.



Plain, Galvanized and Enameled.  
4 sizes.

## CAST IRON WATER TANK.

Fig. 864.

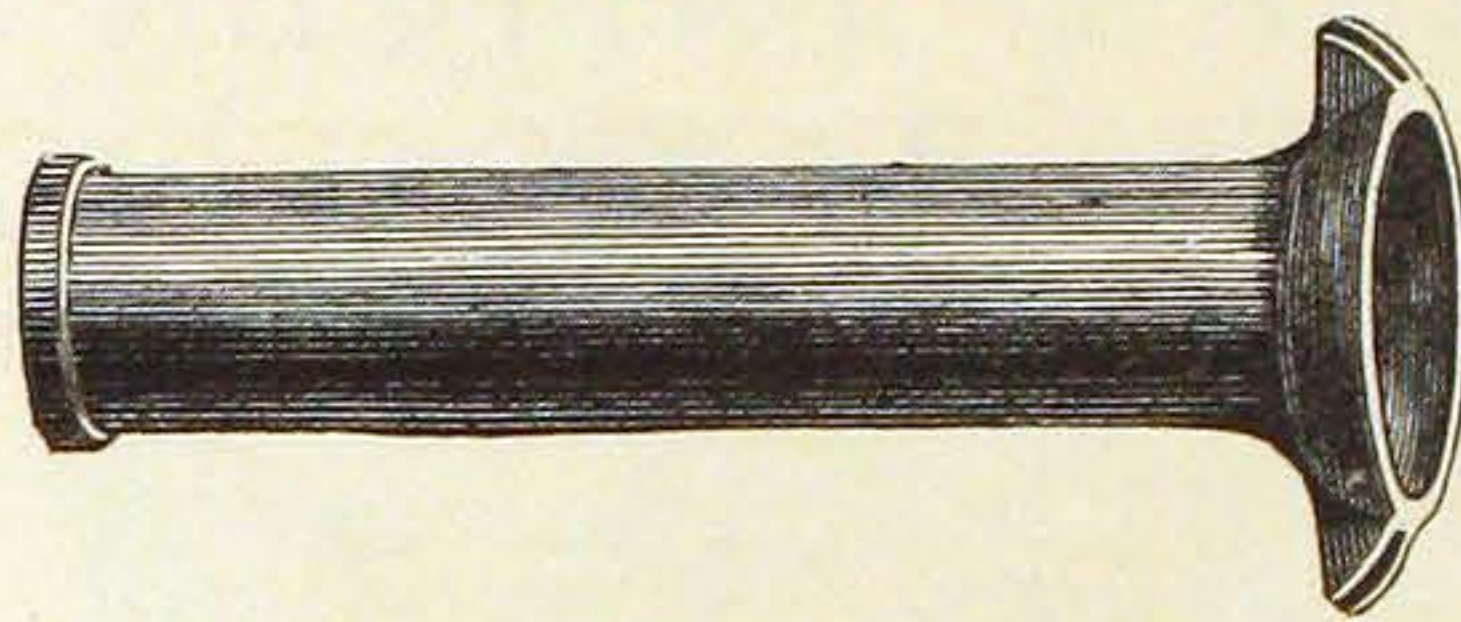


Plain and Galvanized.



## STRAIGHT CONNECTION FOR SINK.

Fig. 865.

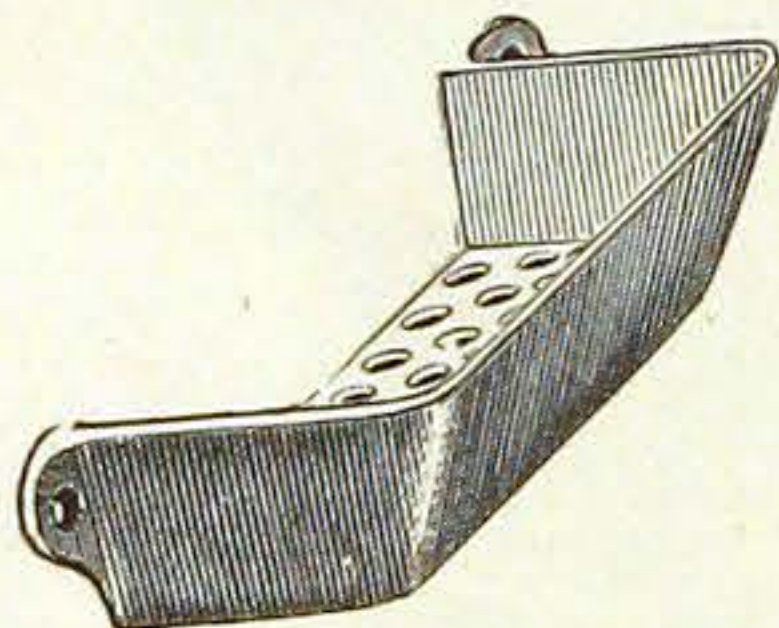


To connect Iron Socket Pipe.

## SOAP CUP.

For Sinks and Wash Tubs.

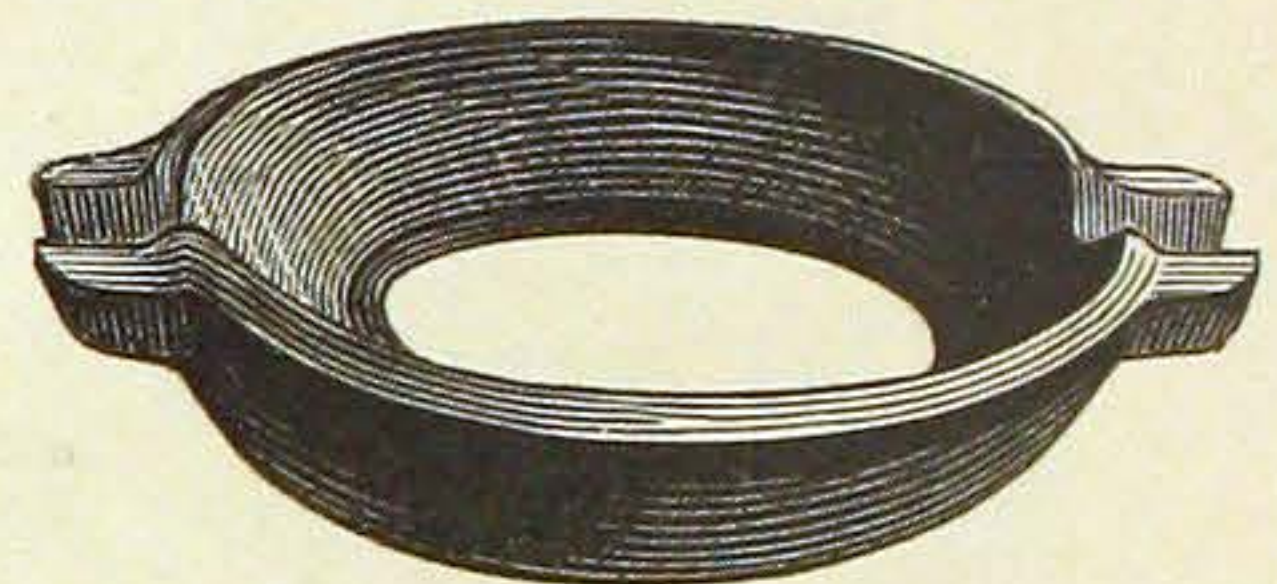
Fig. 866.

Size,  $5\frac{1}{4} \times 3\frac{1}{4}$ 

Plain, Galvanized and Enameled.

## SINK COUPLING.

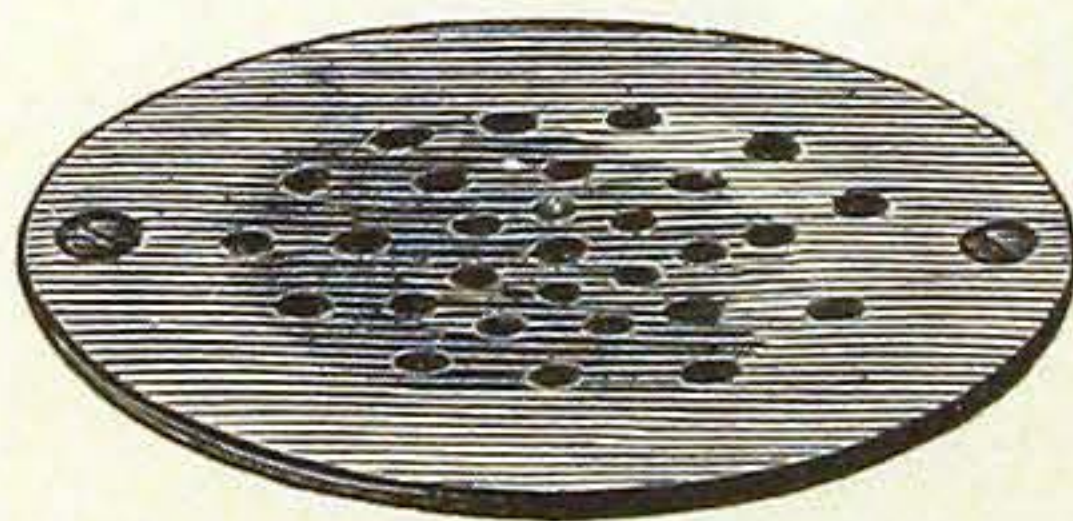
Fig. 867.



## SINK STRAINERS.

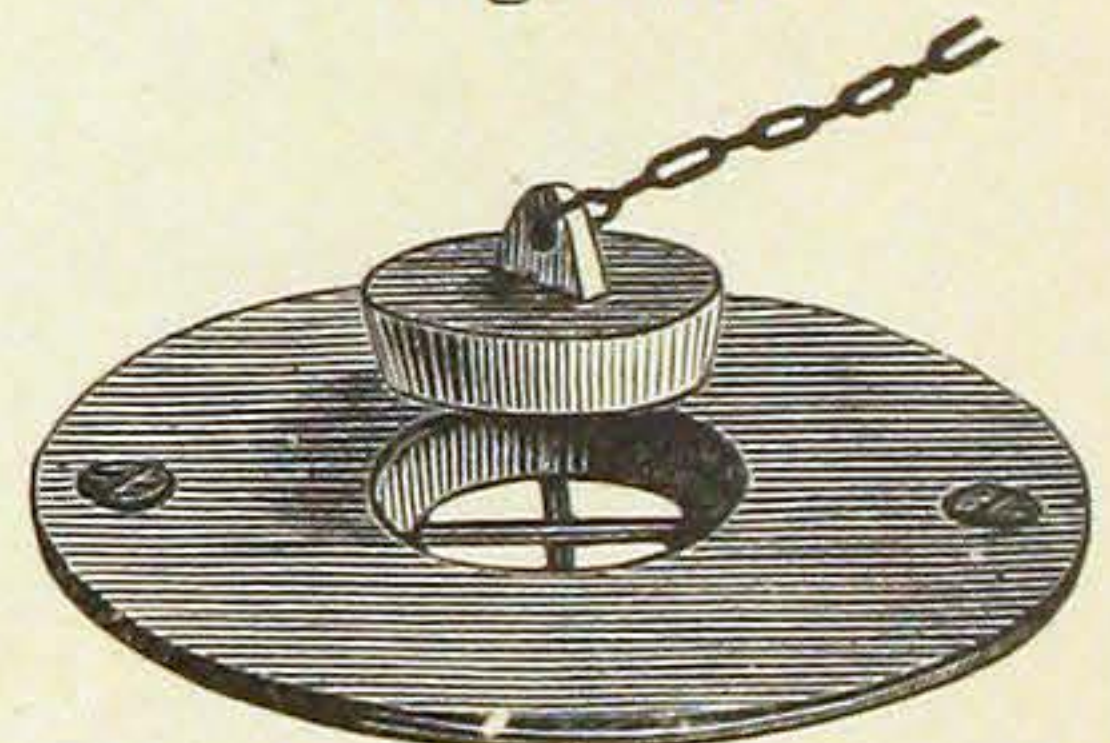
OPEN.

Fig. 868.



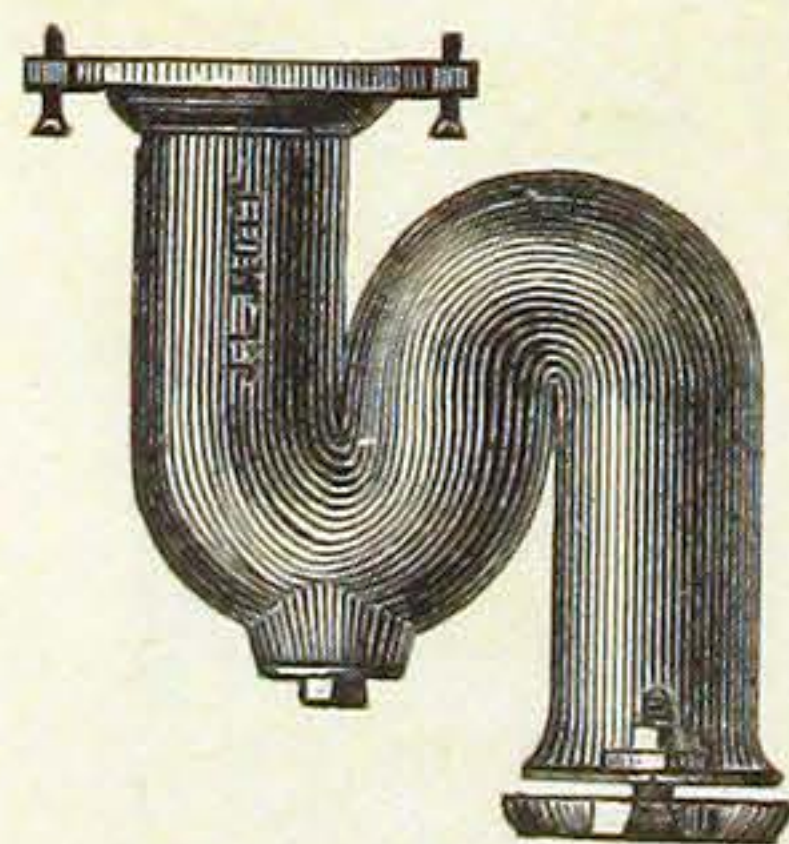
PLUG.

Fig. 869.



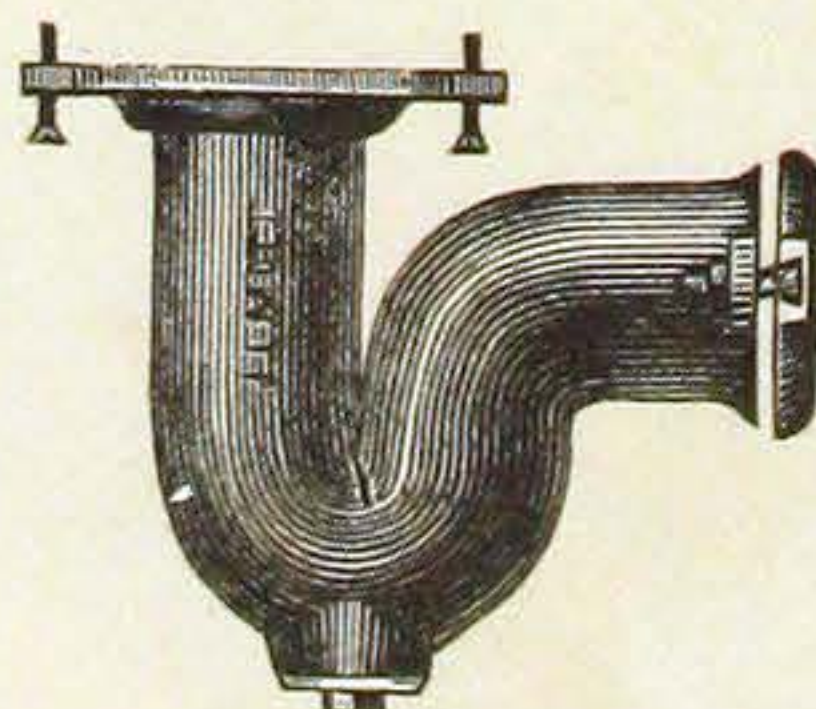
## IRON SINK TRAPS.

Fig. 870.



S Trap for Lead Pipe connection.

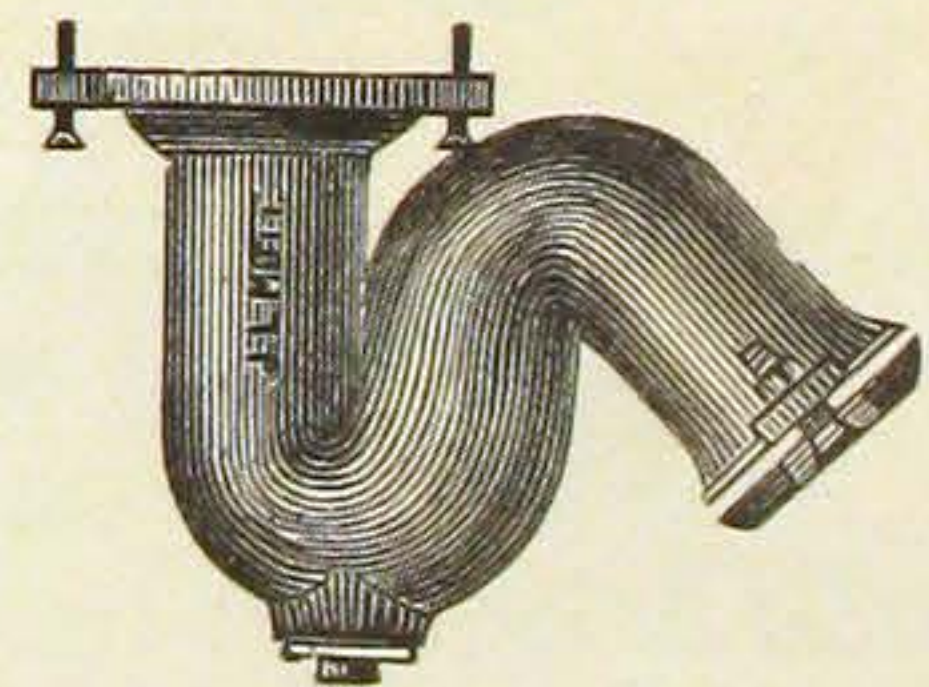
Fig. 872.



Half S Trap for Lead Pipe connection.

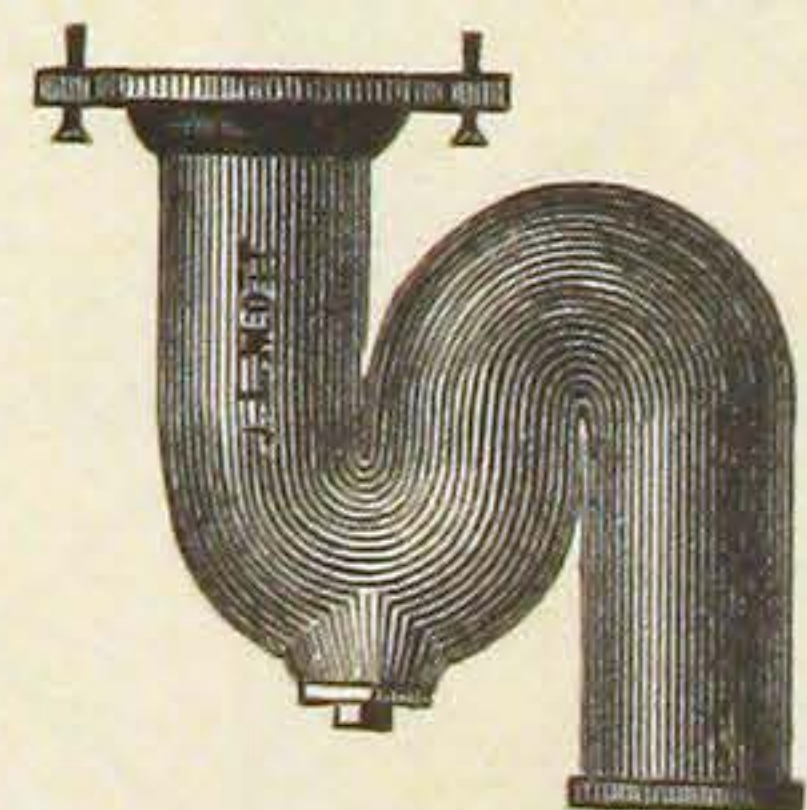
With detachable Ring which allows Trap to be set in any position or at any angle desired ; also fitted with Brass Screw Plugs for cleaning out.

Fig. 871.



Three Quarter S Trap for Lead Pipe connection.

Fig. 873.

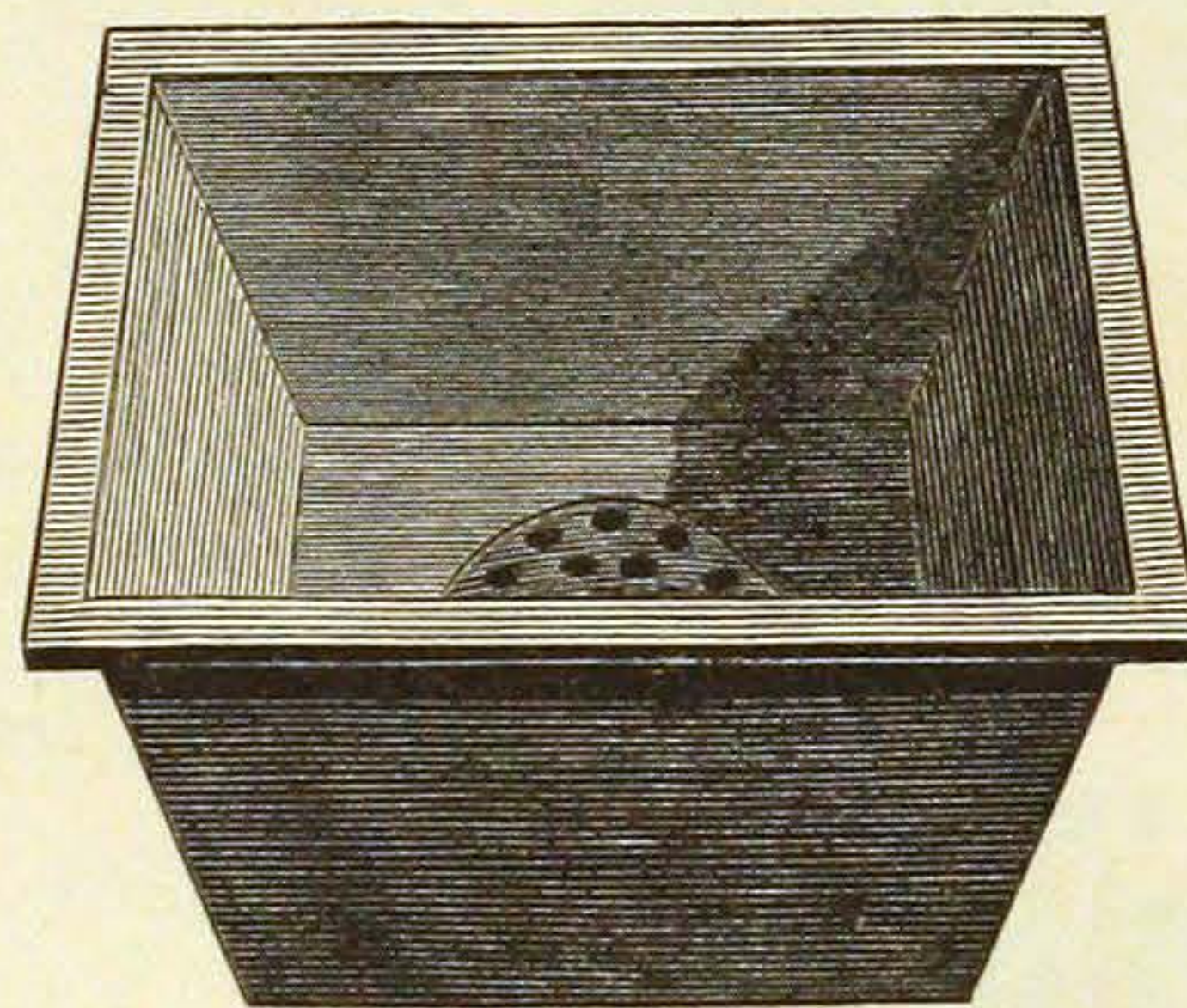
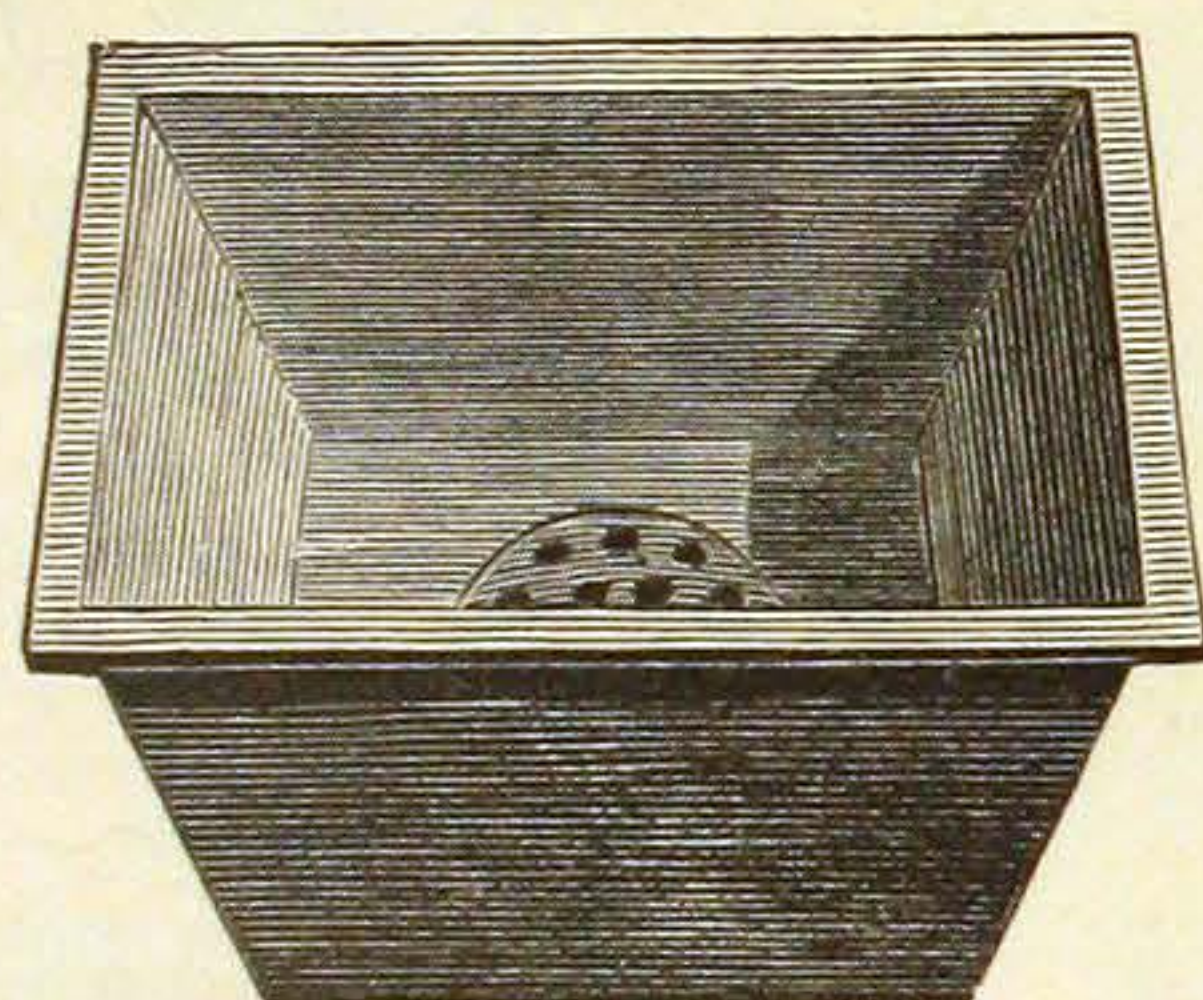
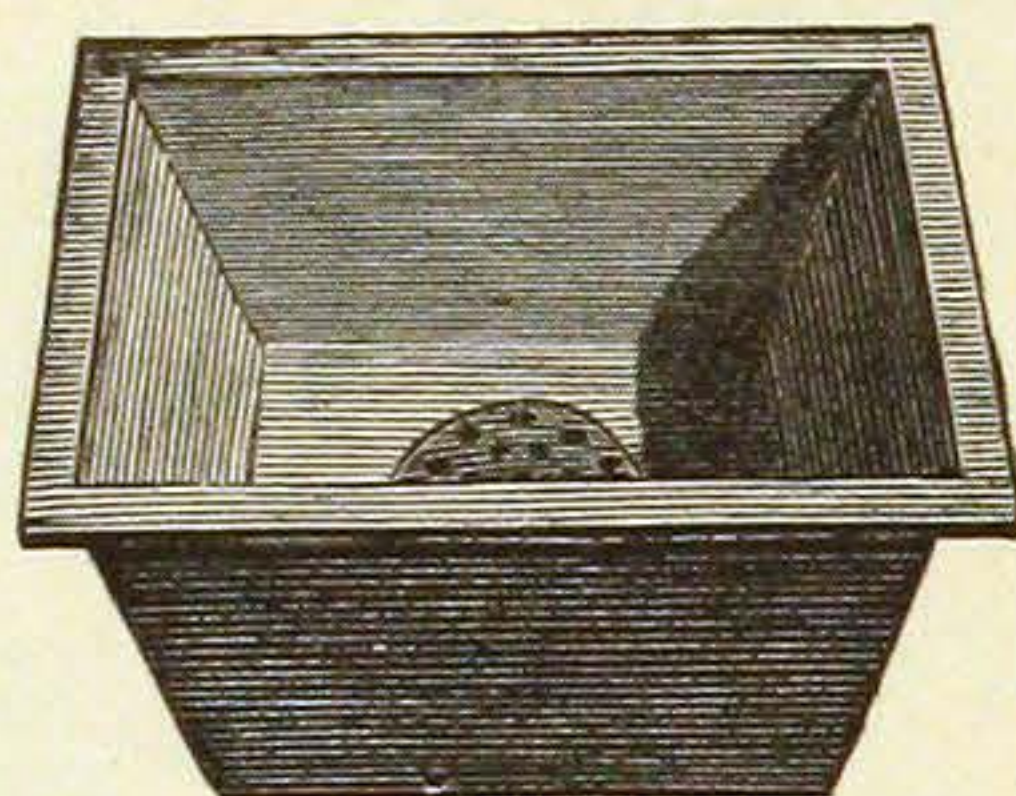


S Trap for Iron Pipe connection.



## HYDRANT CESSPOOLS.

**Fig. 874.**



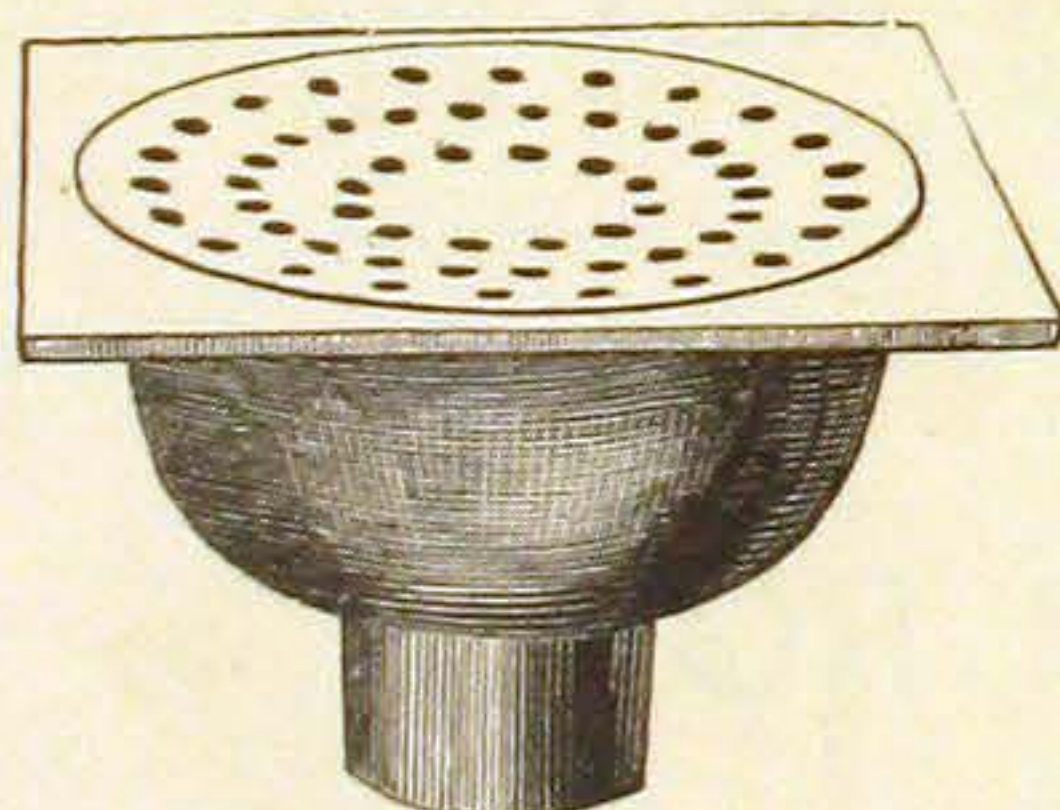
Sizes, 12 x 12, 6 in. deep.

14 x 14, 6 in. deep.

16 x 16, 6 in. deep.

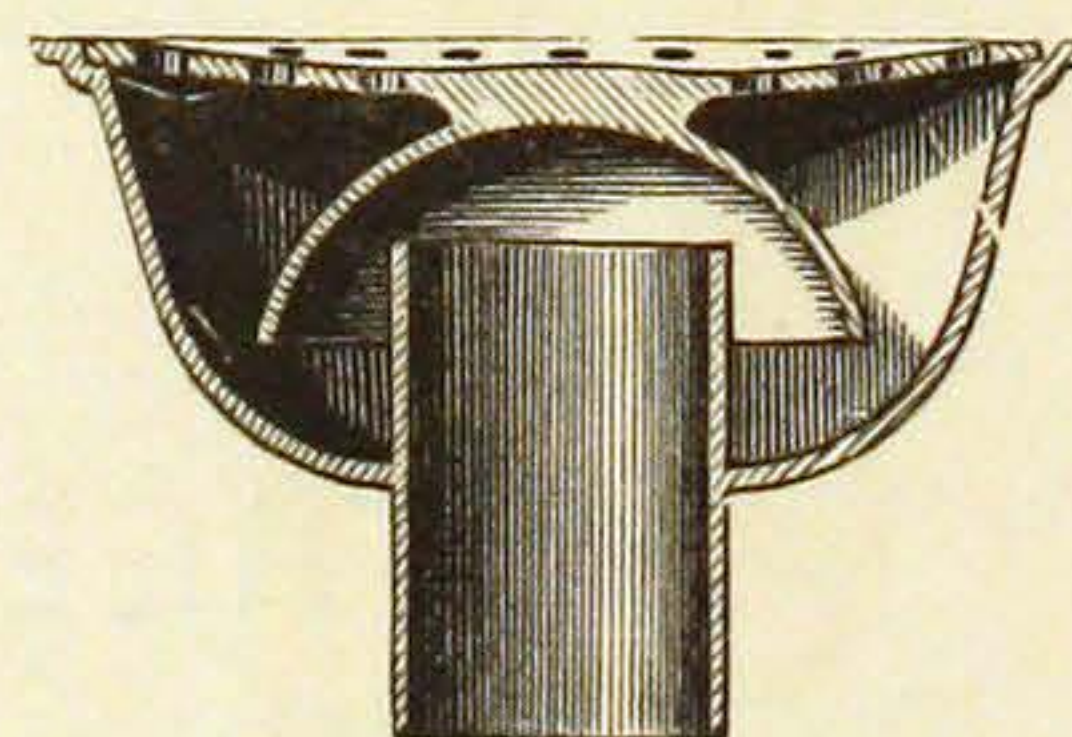
## CESSPOOLS WITH BELL TRAP. LIGHT AND HEAVY.

**Fig. 875.**



13 inch square.

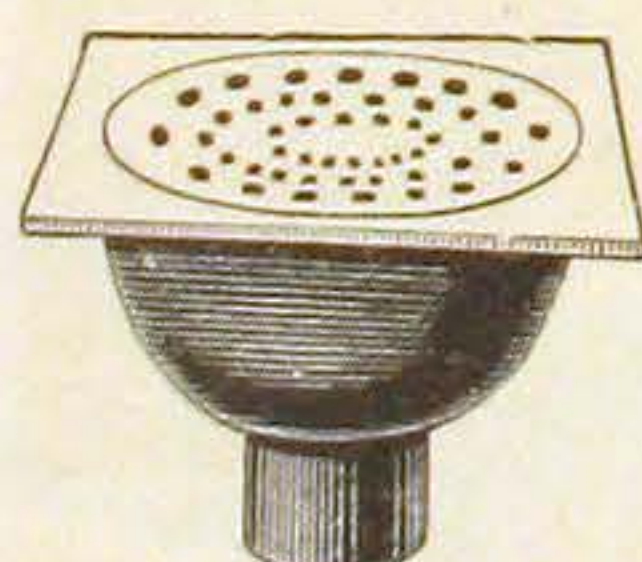
**Fig. 876.**



Sectional Cut.

## STENCH TRAP.

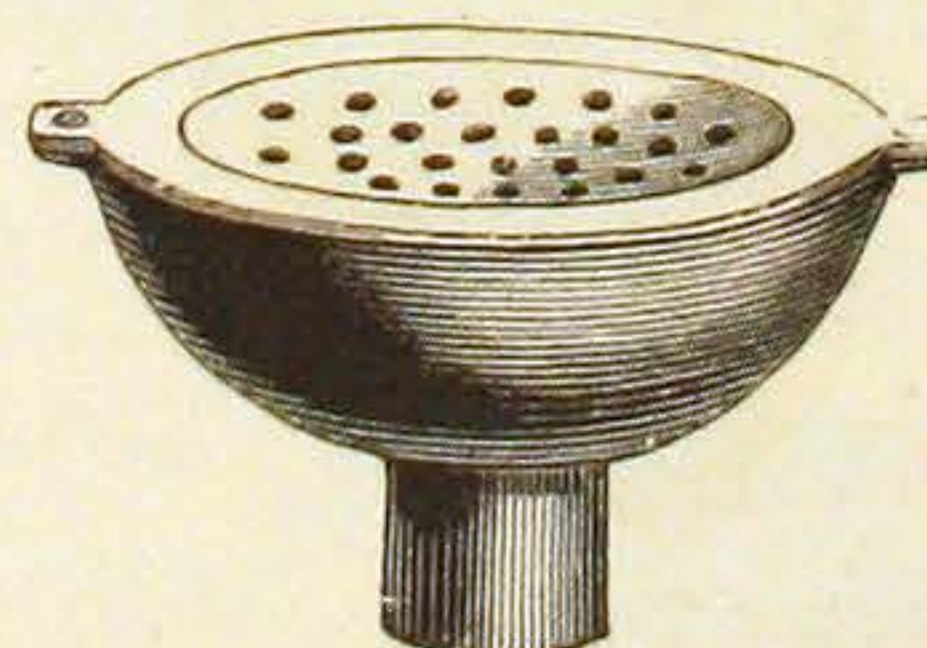
**Fig. 877.**



Diam. on top, 6 inches.

## PLAIN CESSPOOL.

**Fig. 878.**



Diam. on top, 13 inches.



## CESSPOOLS.

LARGE, WITH BELL TRAP AND GRATING.  
FOR YARDS, AREAS AND STABLES.

Fig. 879.

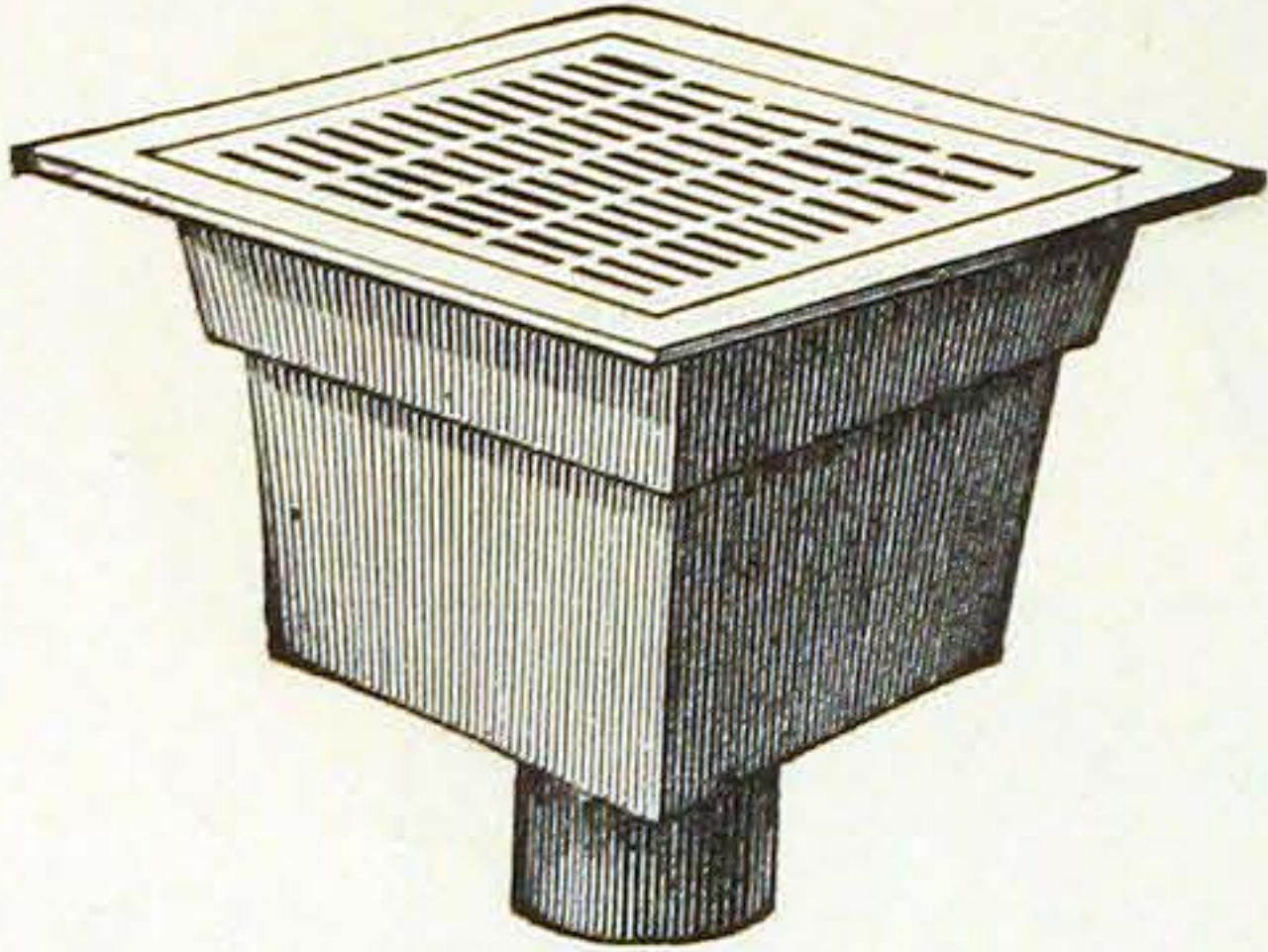
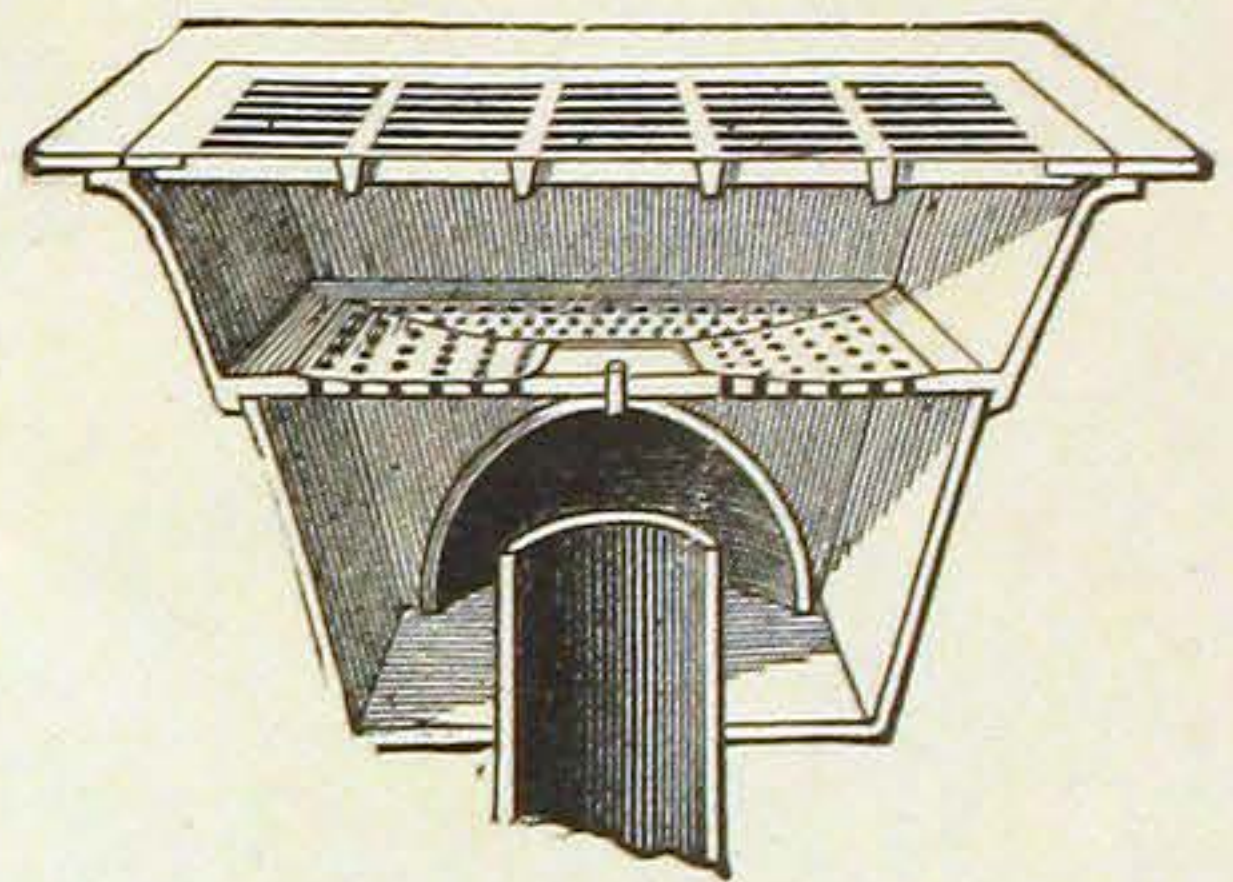


Fig. 880.

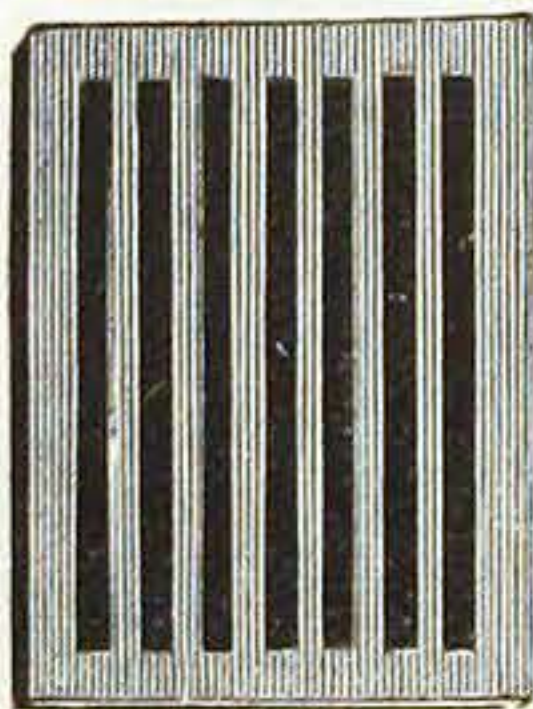


Sectional Cut.

16 inches square.

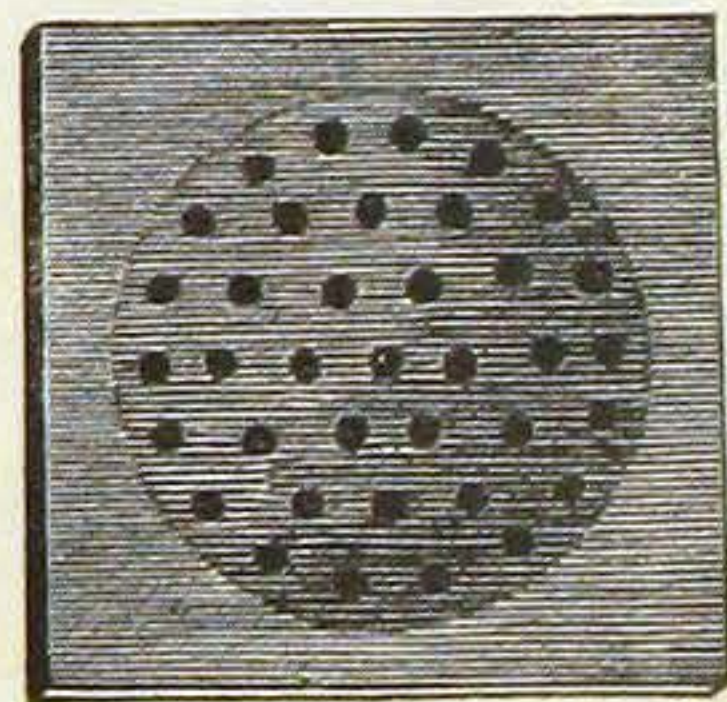
## CESSPOOL PLATES.

Fig. 881.



6 x 8 inches.

Fig. 882.



4, 5, 6, 7, 7½, 8, 9 and 10 inches square.

## STREET WASHER KEY.

Fig. 883.



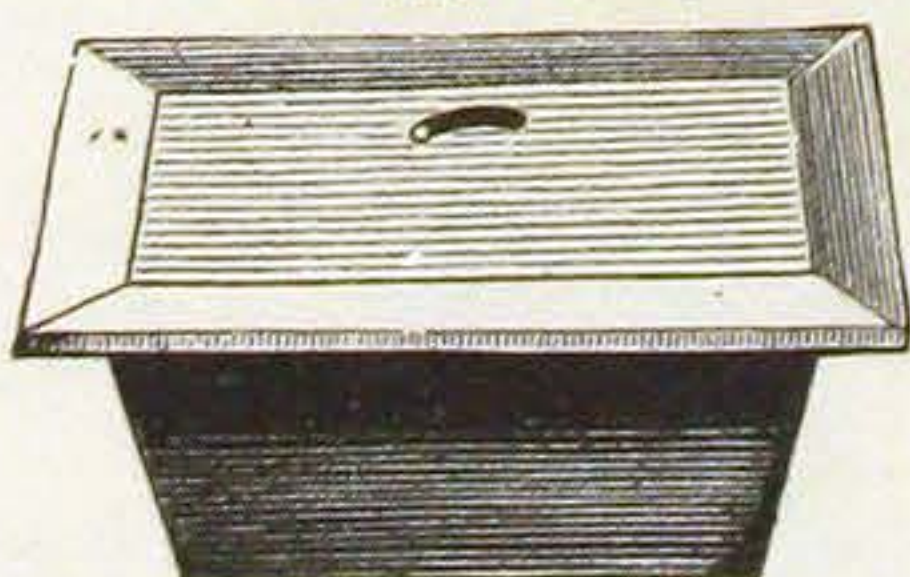
## STREET WASHER ROD.

Fig. 884.



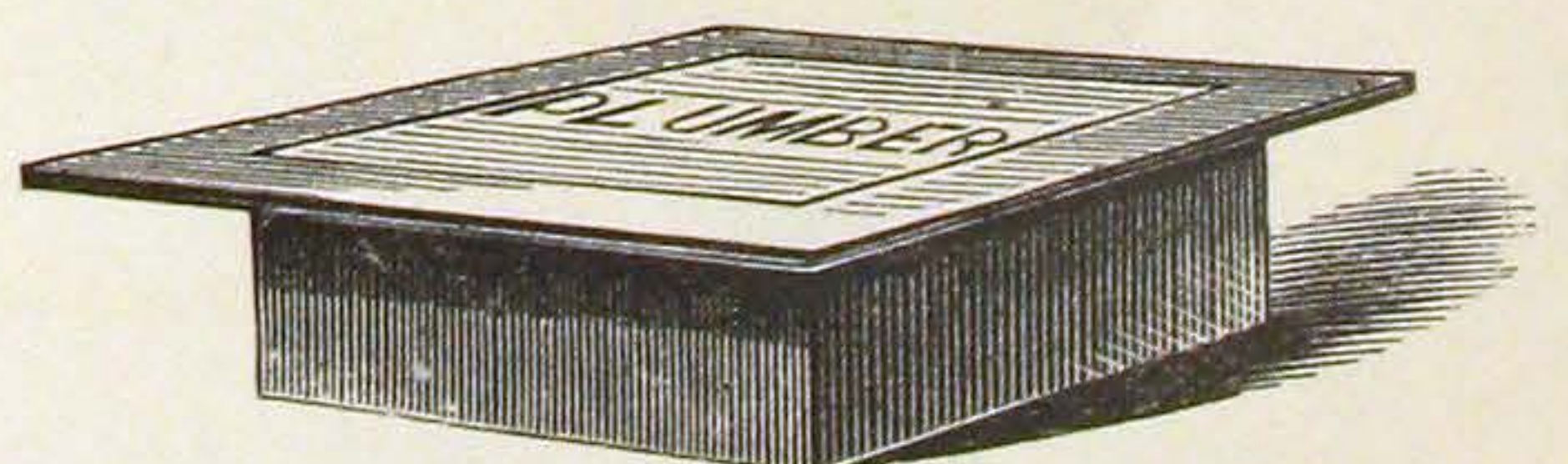
## STOP COCK BOX.

Fig. 885.



## STREET WASHER BOX.

Fig. 886.

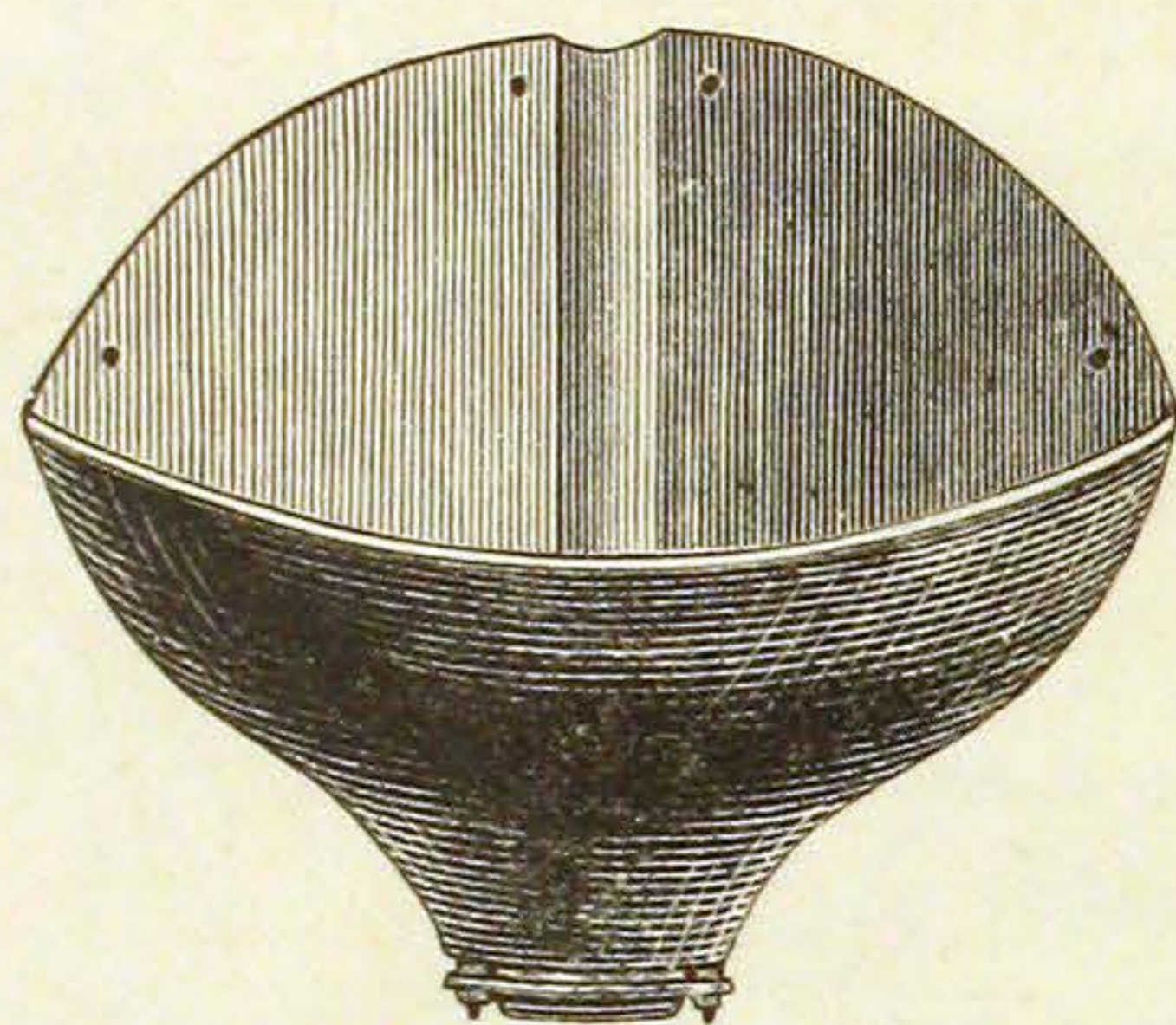


Plumbers' Address cast on Covers to order.



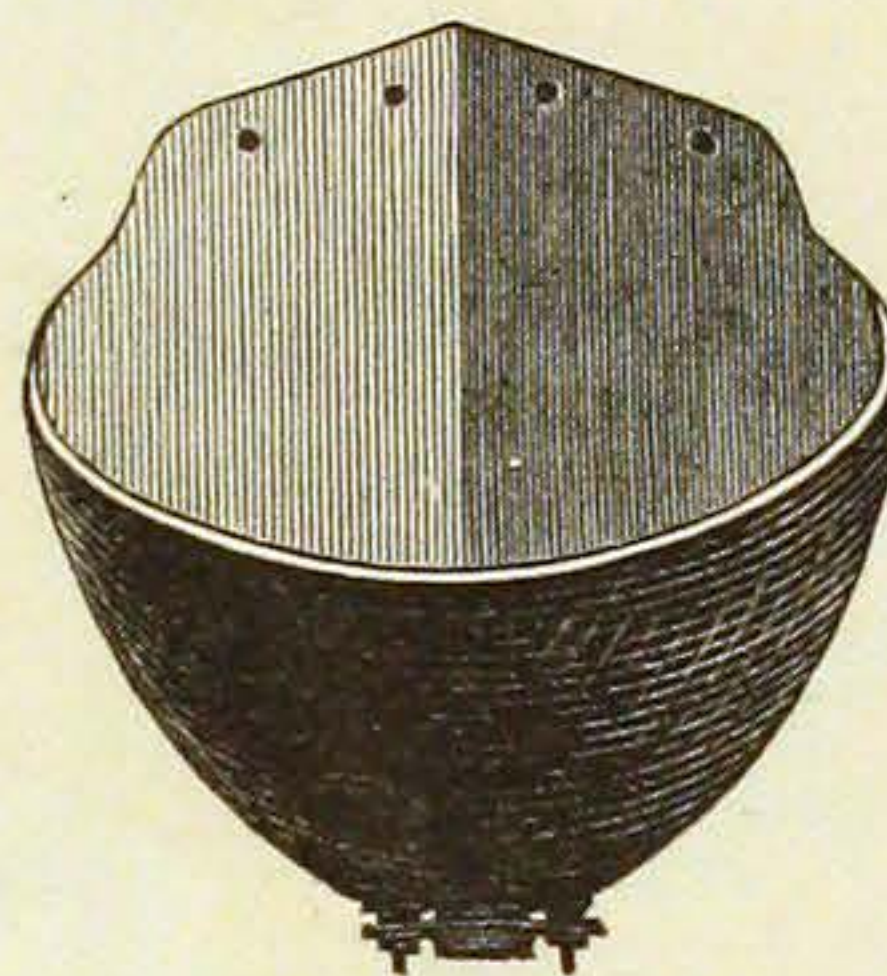
# CORNER URINALS. ENGLISH PATTERN.

**Fig. 887.**



With opening behind for Lead Pipe.  
12 inches on side.

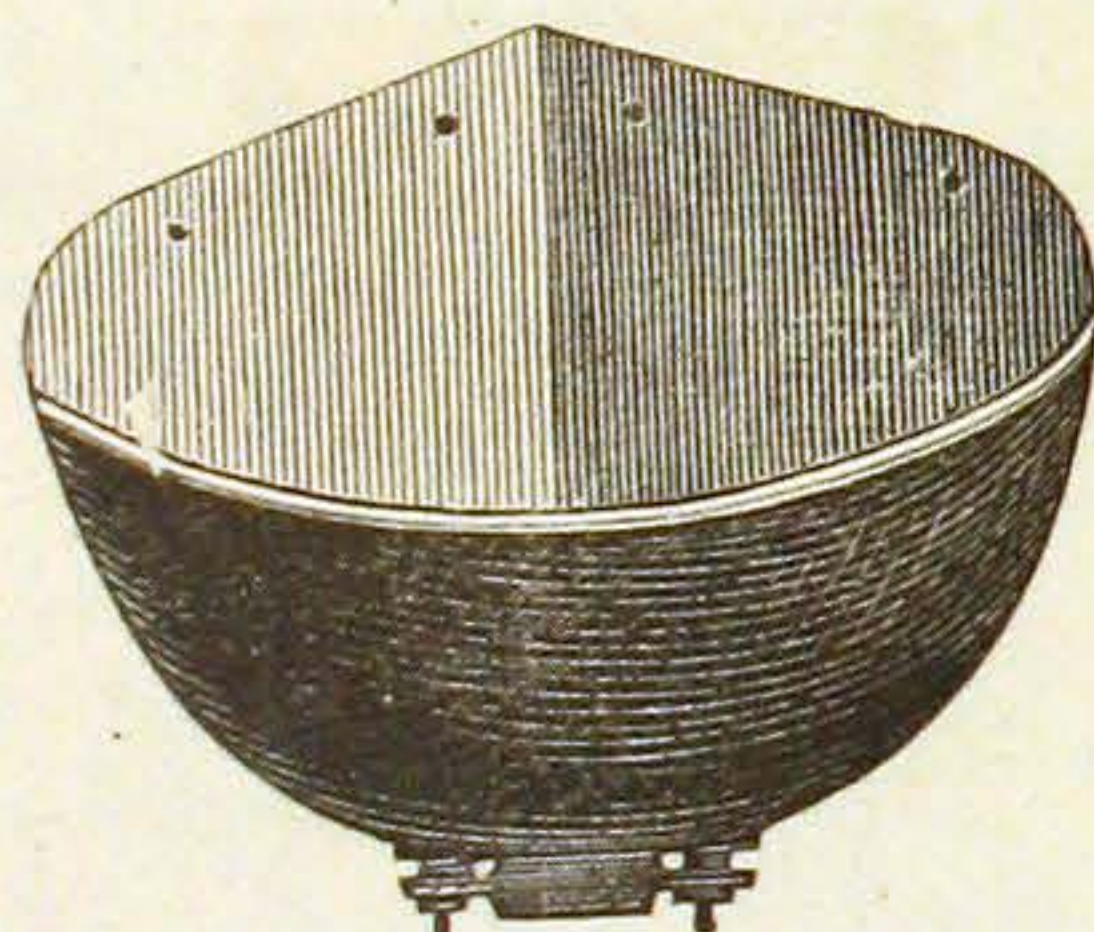
**Fig. 888.**



No. 1.

7 inches on side.

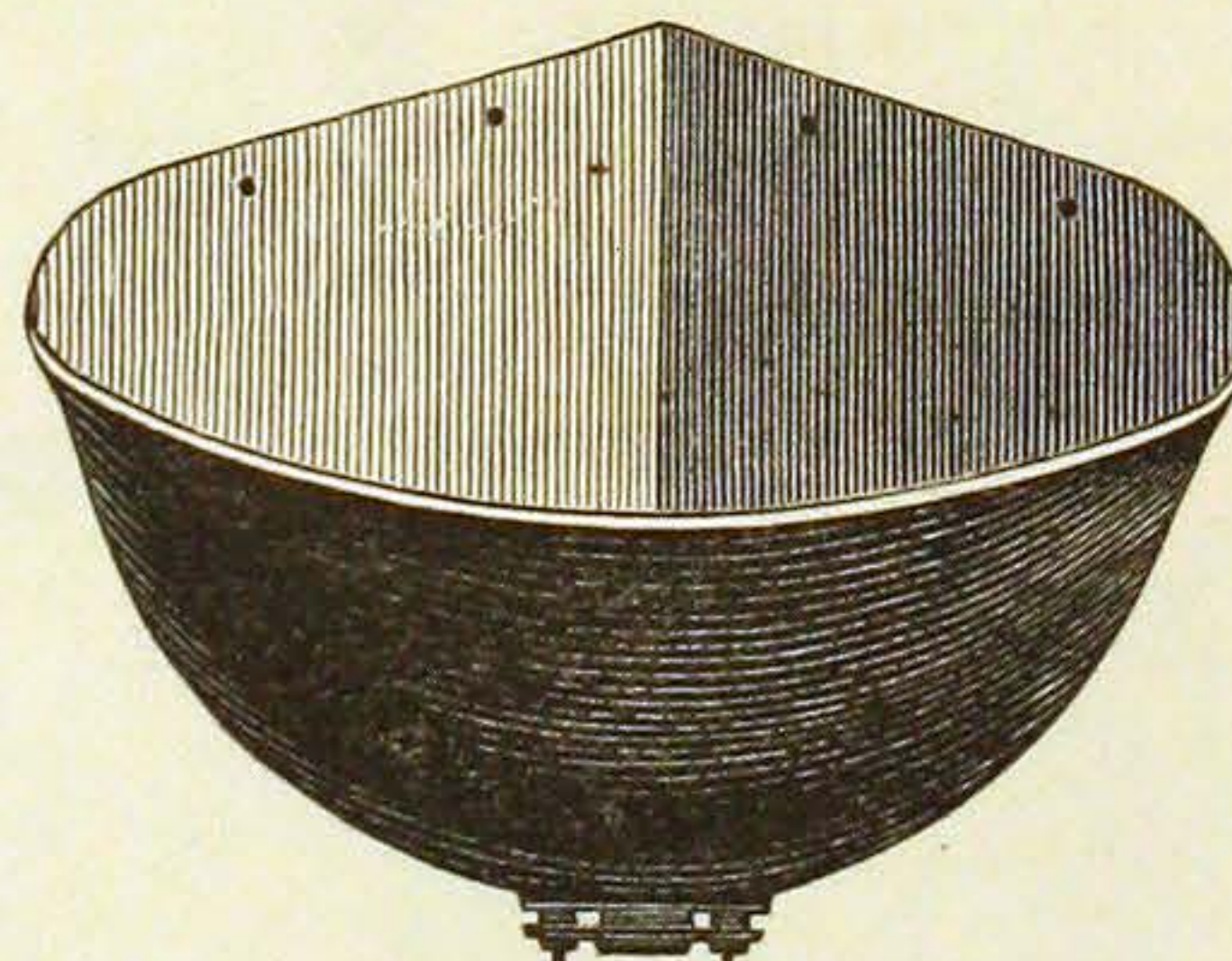
**Fig. 889.**



No. 2.

9 inches on side.

**Fig. 890.**



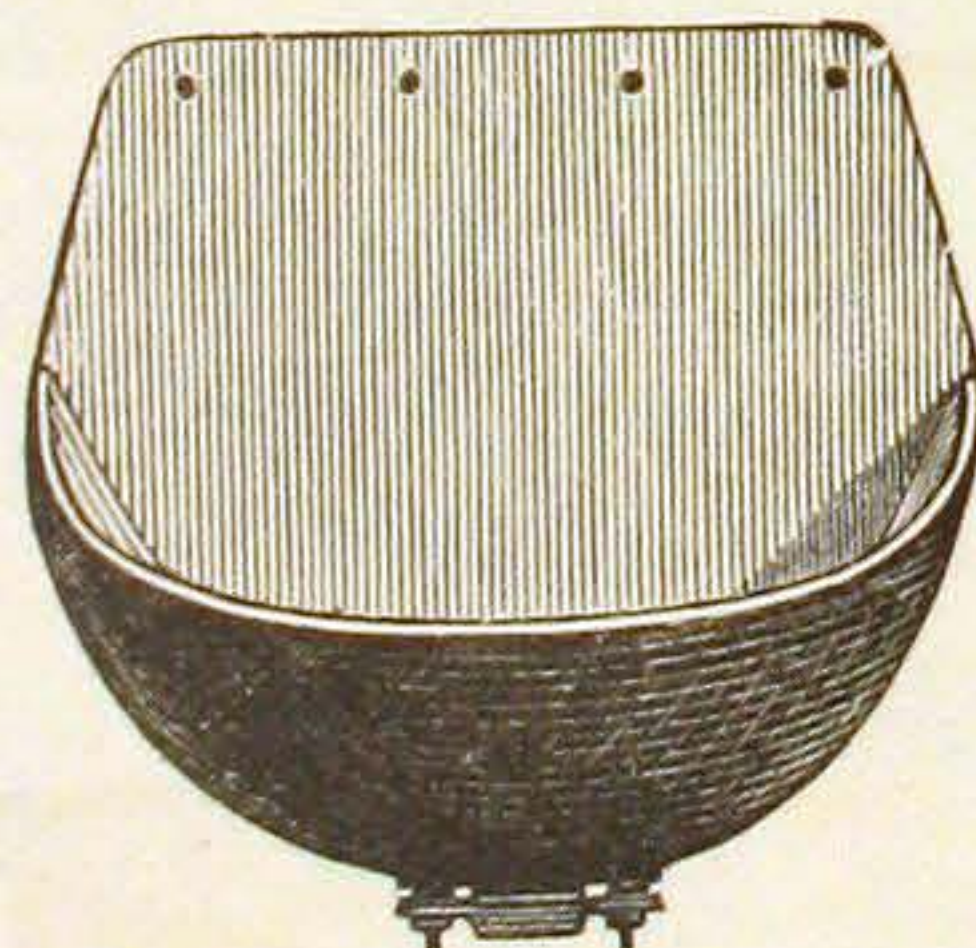
No. 3.

12 inches on side.

Plain, Painted and Enameled.

## HALF CIRCLE URINALS.

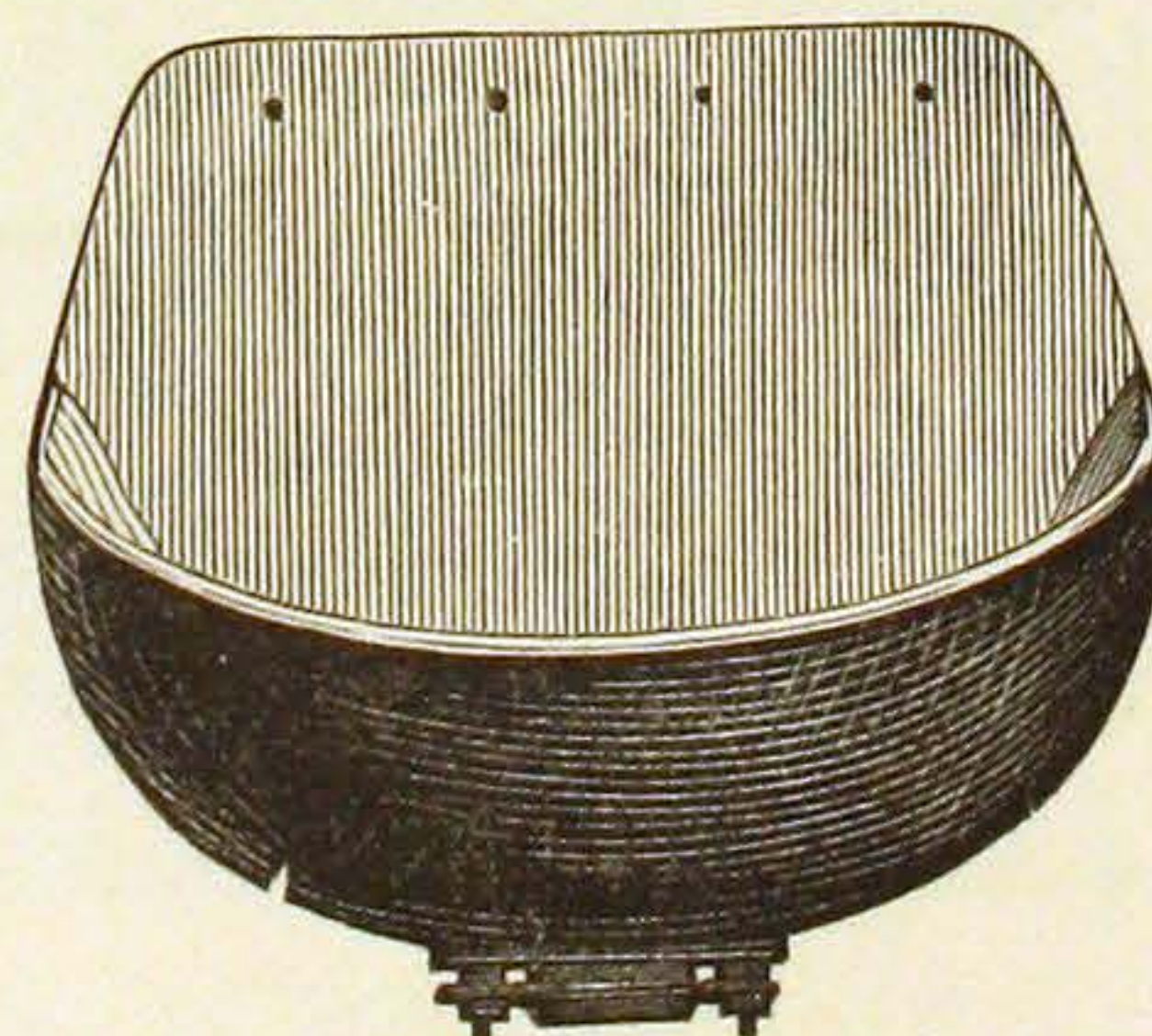
**Fig. 891.**



No. 1.

Length on back, 12 inches.

**Fig. 892.**



No. 2.

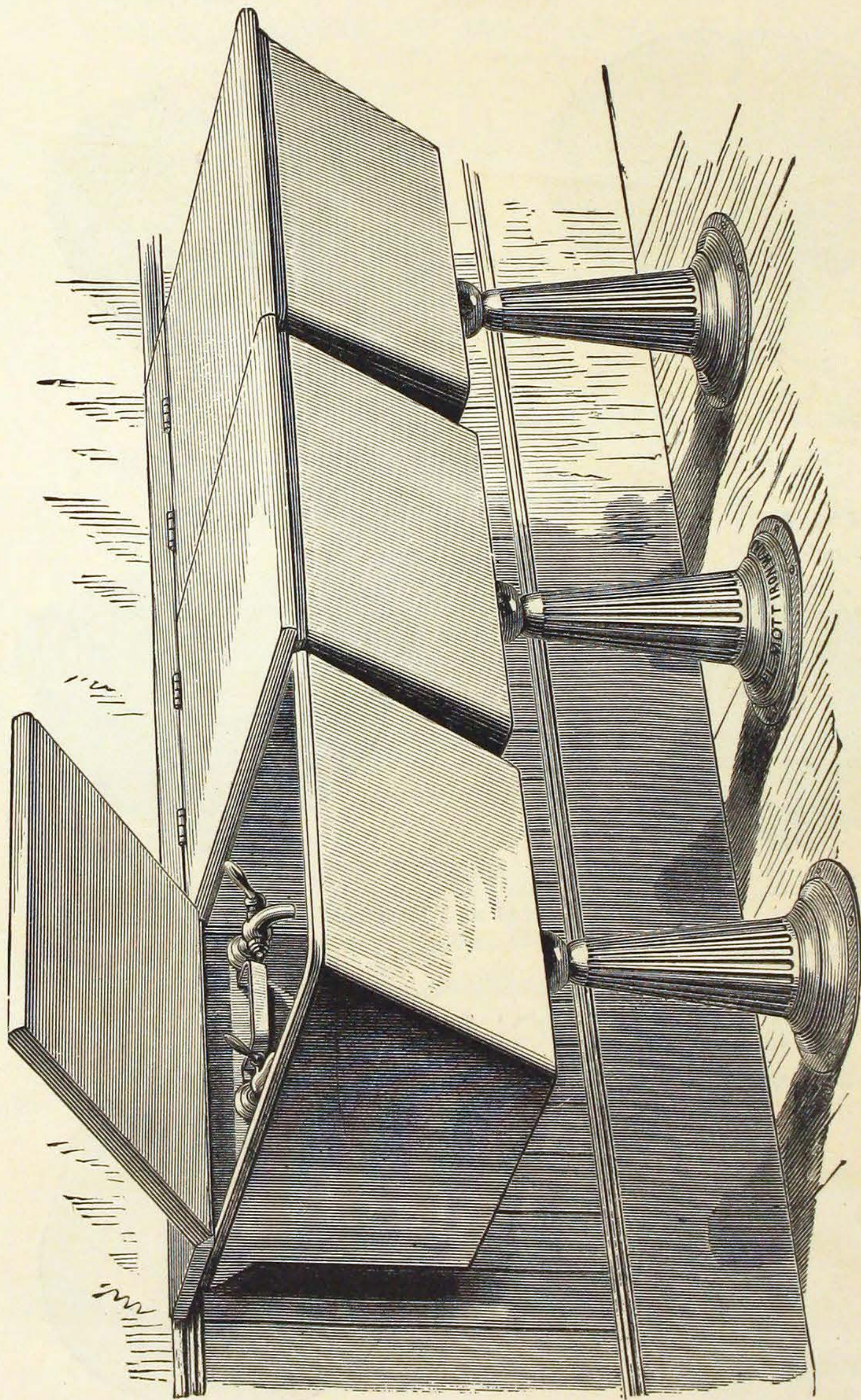
Length on back, 15 inches.

Plain, Painted and Enameled.



## MOTT'S WASH TUBS.

Fig. 893.

**Galvanized and Enameled.**

They are very easily fitted up, as it only requires a couple of brass screws to fasten them together; a little strip of leather or rubber may be used between each Tub so to make a water-tight job.

Three Tubs are generally used in a set, but any number can be put together in the same way.

The Covers are made of wood, which we do not furnish.

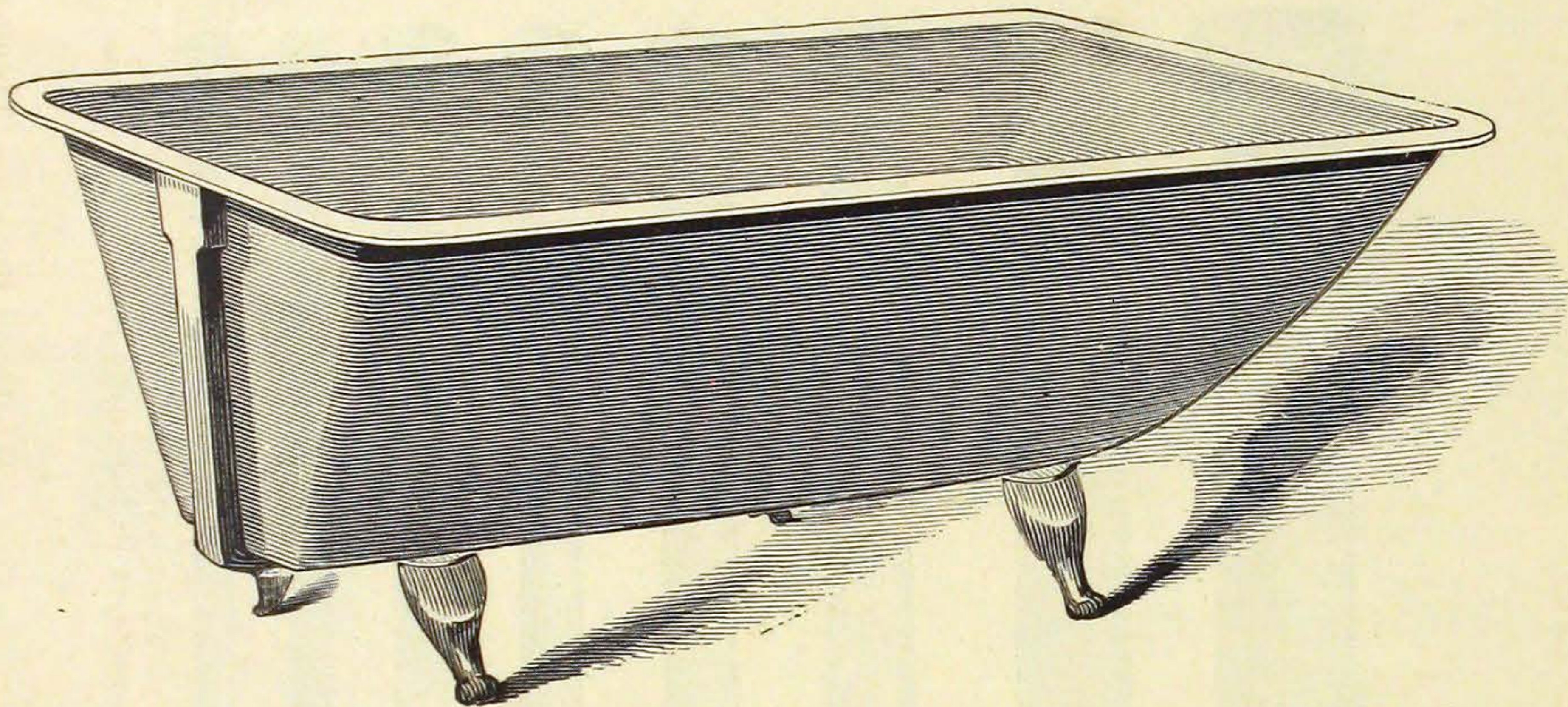
**Dimensions.**

Height, including Standard, 32 inches.	Length of Single Tub, 24 inches.	Width on Bottom, 13 inches.
Width on Top including Flange, 23½ in.	Width on Top not including Flange, 21 in.	Depth, 14 in.



## MOTT'S BATH TUB. WITH PATENT OVERFLOW.

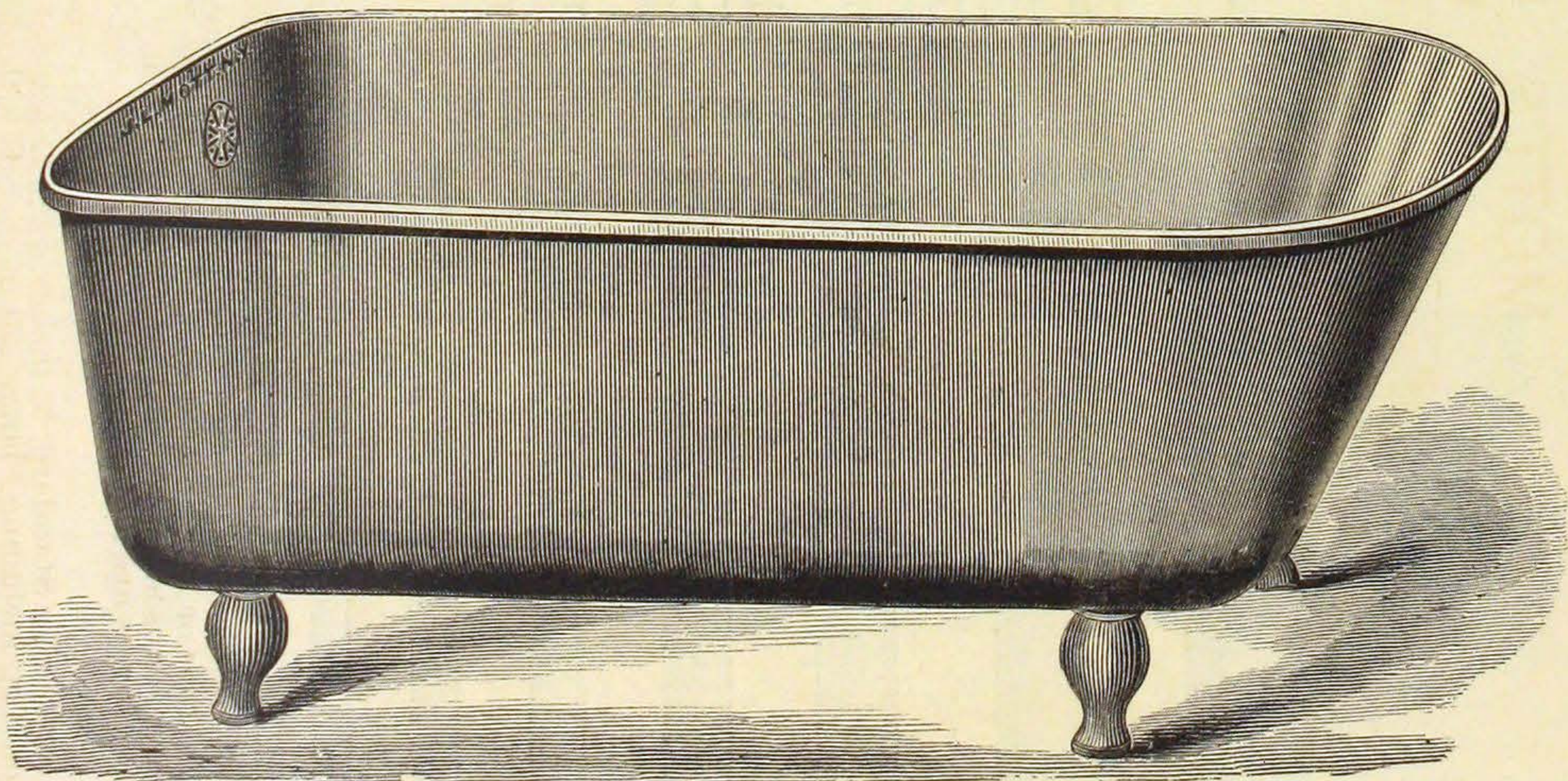
Fig. 894.



Length.	Width.	Depth.	Height on Legs.
No. 1, 66 inches.	25½ inches.	19 inches.	23 inches.
No. 2, 72 inches.	25½ inches.	19 inches.	23 inches.

## MOTT'S NEW PATTERN FRENCH BATH. PLAIN AND ENAMELED.

Fig. 895.



Length.	Width.	Depth.	Height on Legs.
No. 1, 54 inches.	23½ inches.	19 inches.	23½ inches.
No. 2, 60 inches.	23½ inches.	19 inches.	23½ inches.

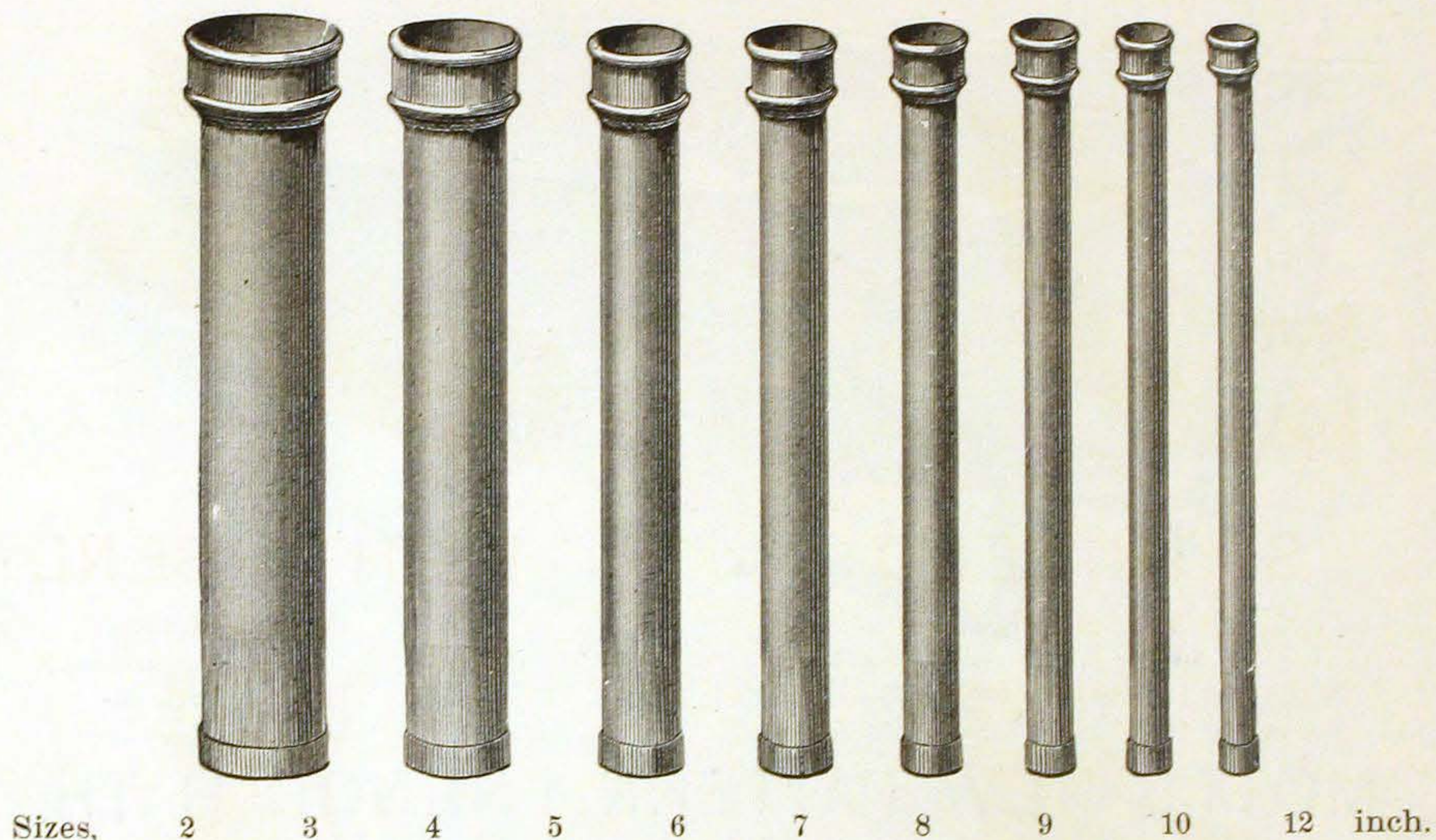
Cast with holes in the ends for Cocks if desired.

We invite special attention to the superior Enameling of these Baths, and strongly recommend them to such as desire a strictly first-class article.



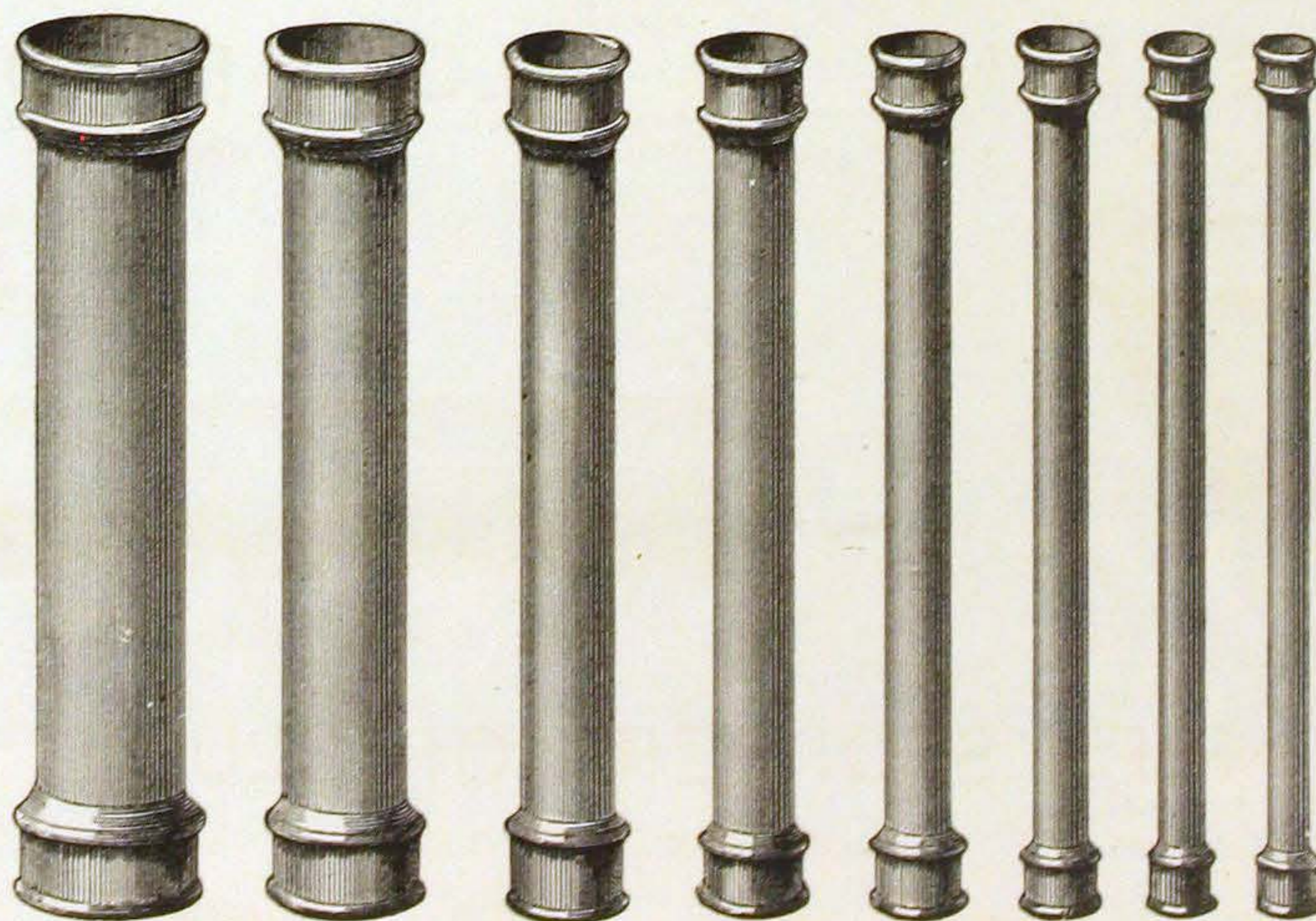
## CAST IRON PIPE.

Fig. 896.



## DOUBLE HUB PIPE.

Fig. 897.



This Pipe will be found very convenient, and a great saving where short pieces are required. When cut in two pieces, each piece can be used without the expense of either a Sleeve or double Hub.

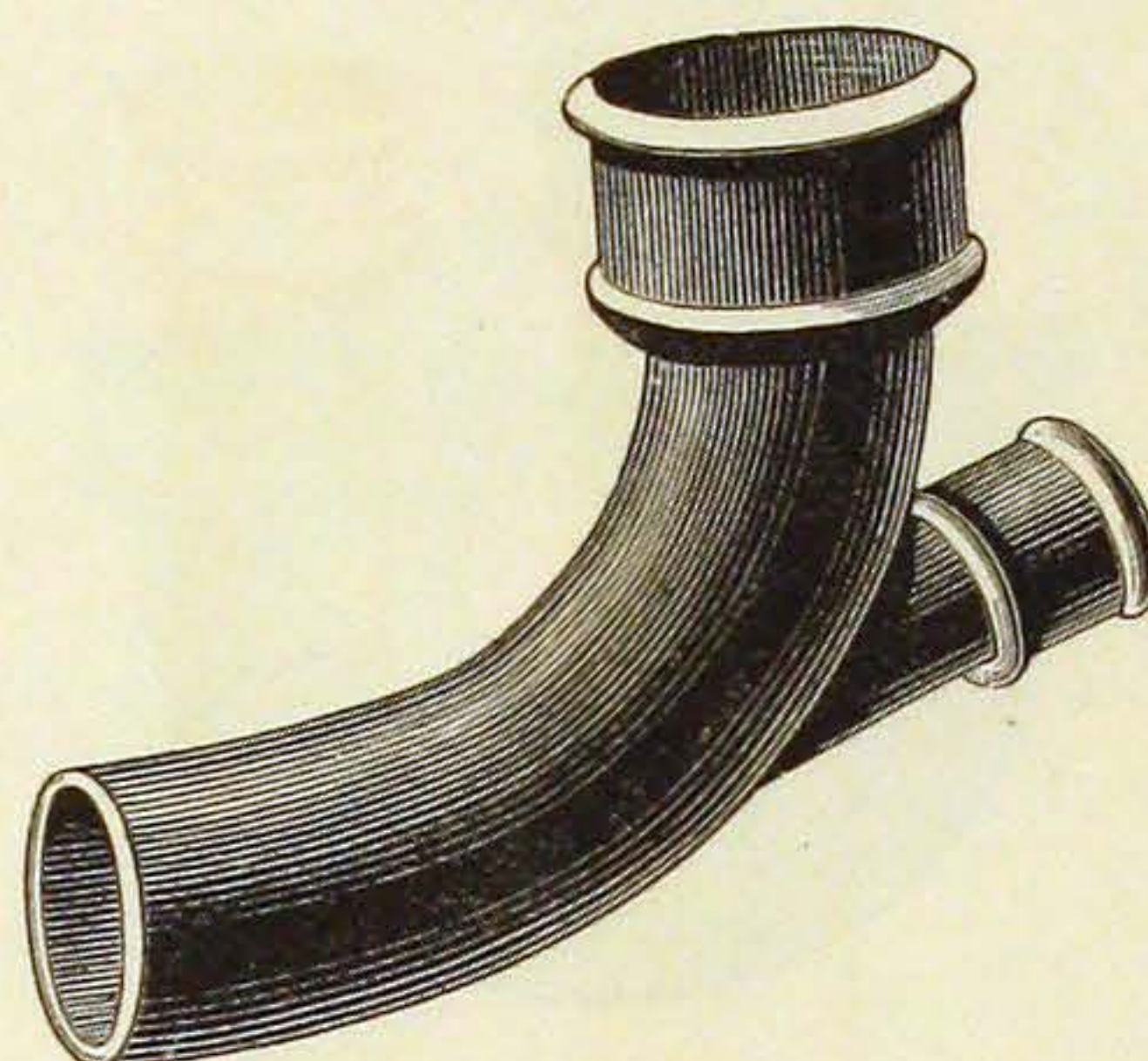
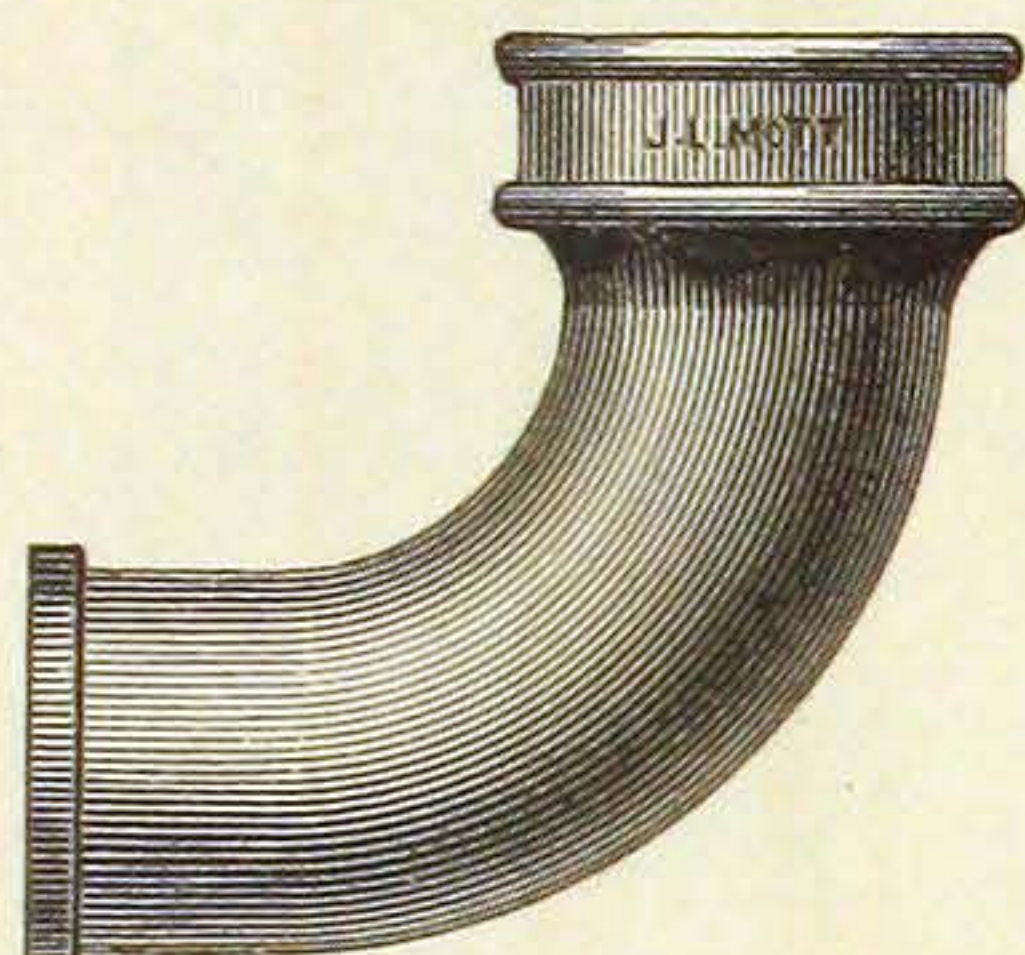


# QUARTER BENDS.

With Outlet for Connection.

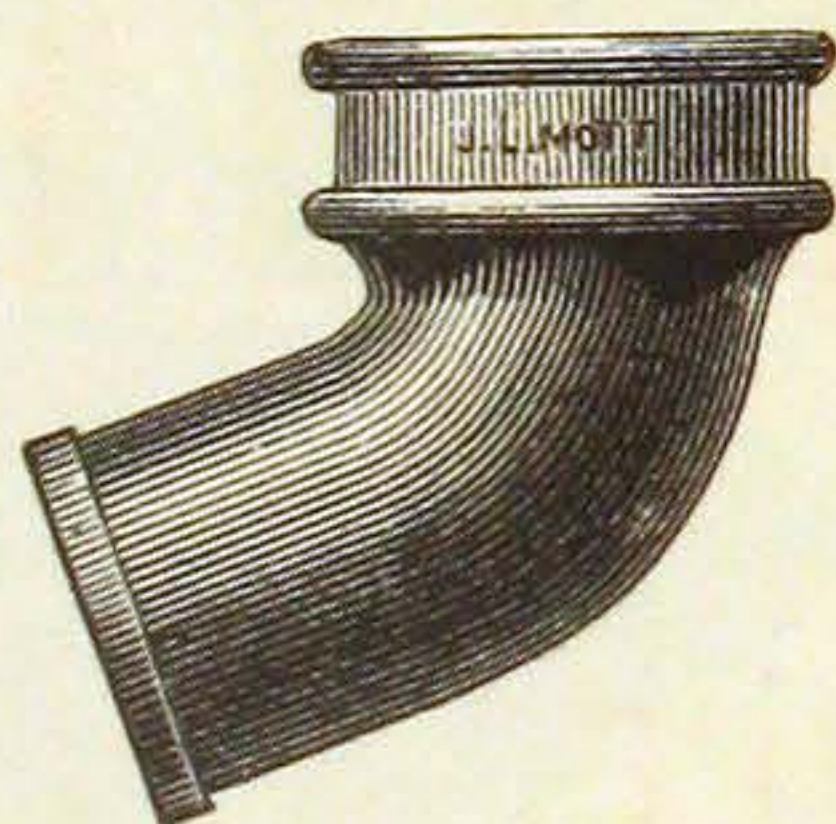
Fig. 899.

Fig. 898.



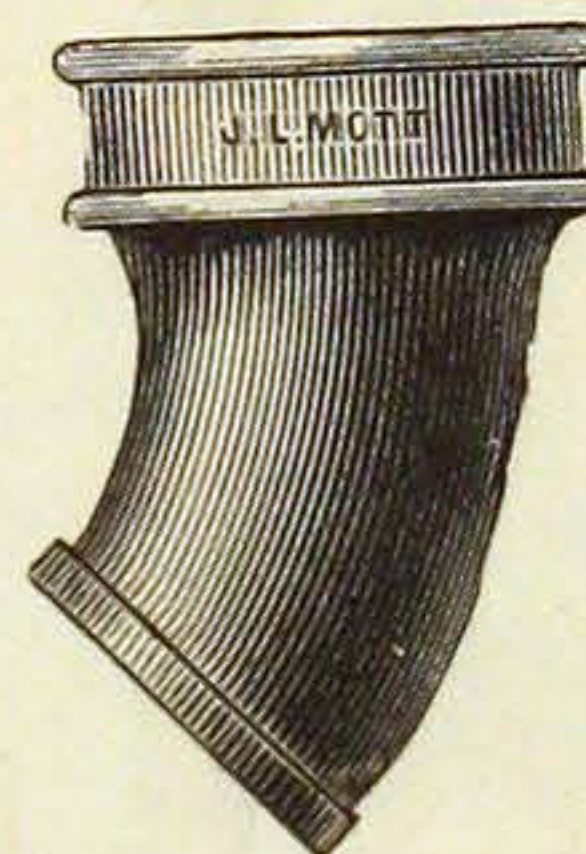
## SIXTH BEND.

Fig. 900.



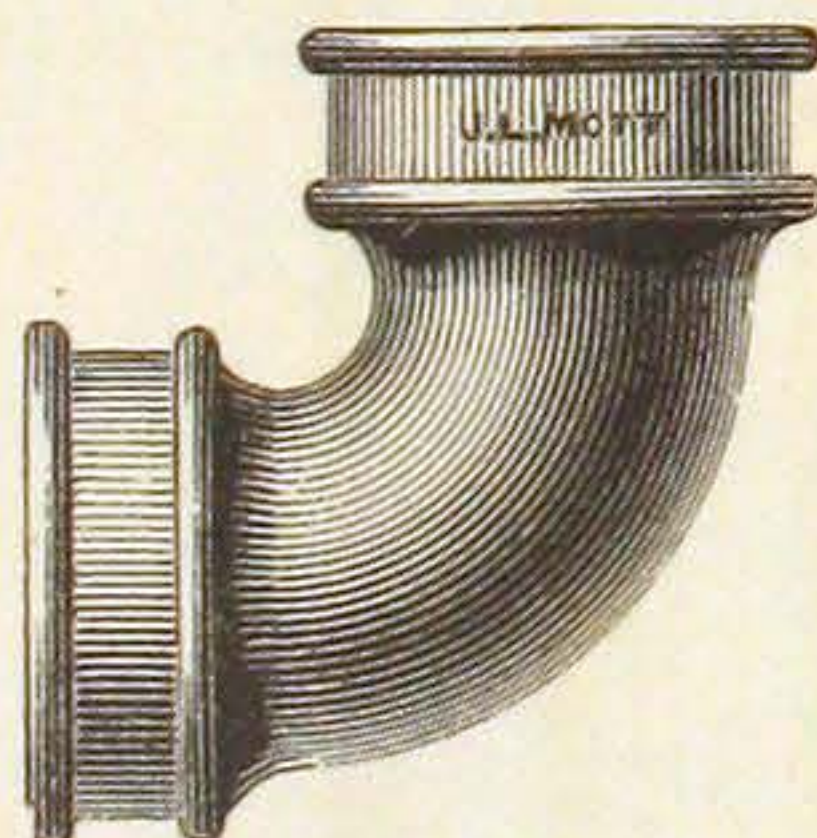
## EIGHTH BEND.

Fig. 901.



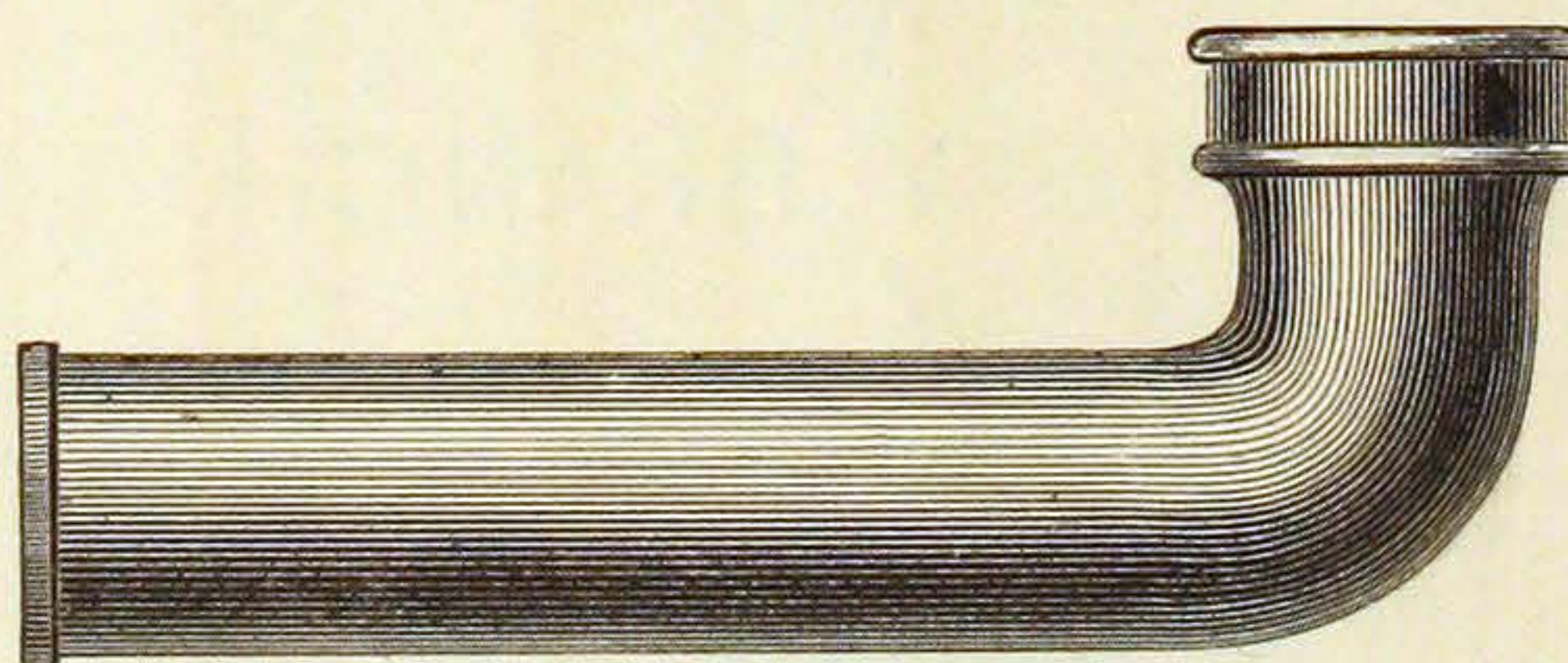
## DOUBLE HUB, QUARTER BEND.

Fig. 902.



## LONG BEND.

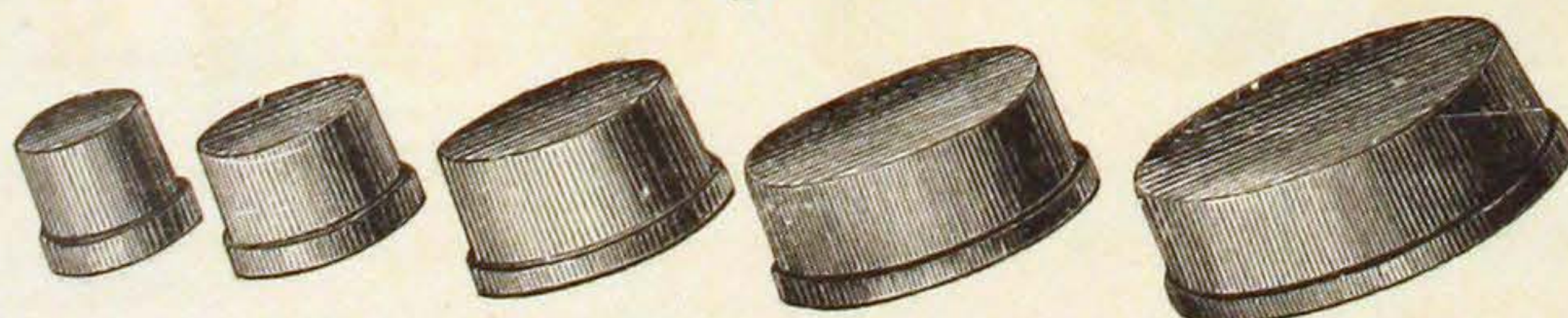
Fig. 903.



18 inches in the clear.

## PIPE STOPPERS OR PLUGS.

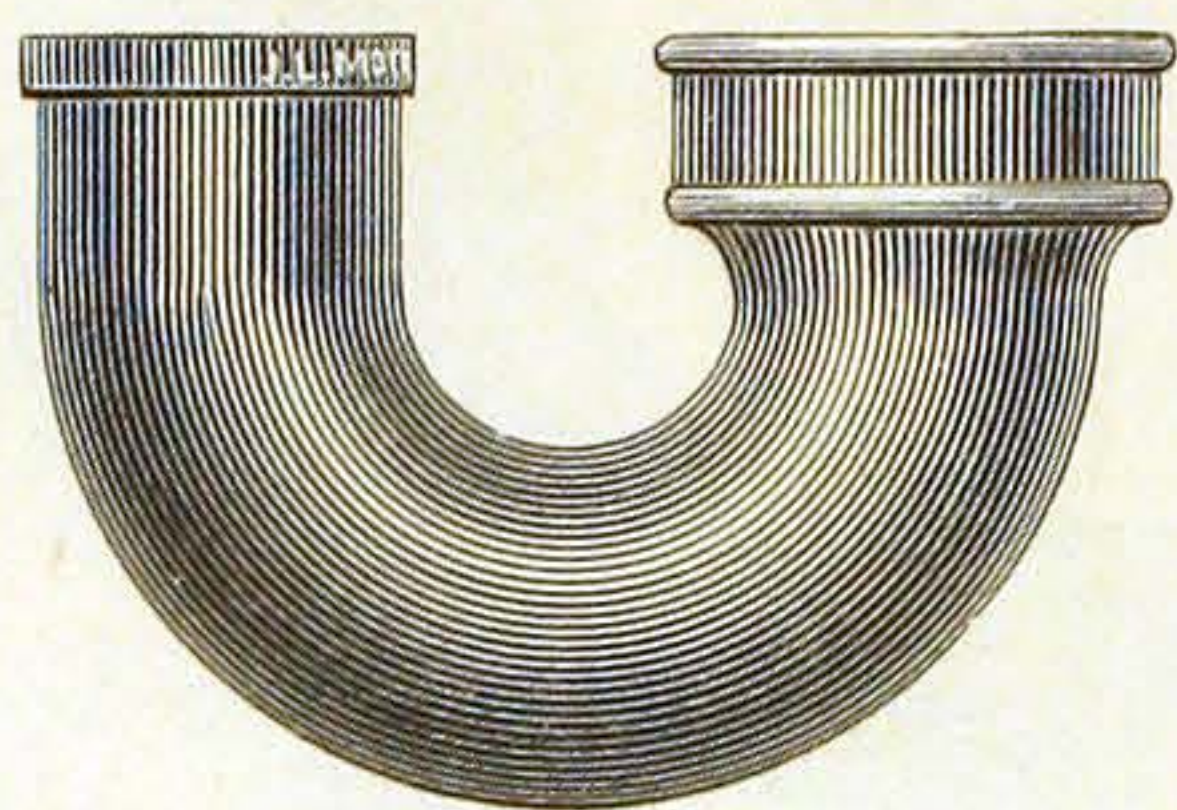
Fig. 904.





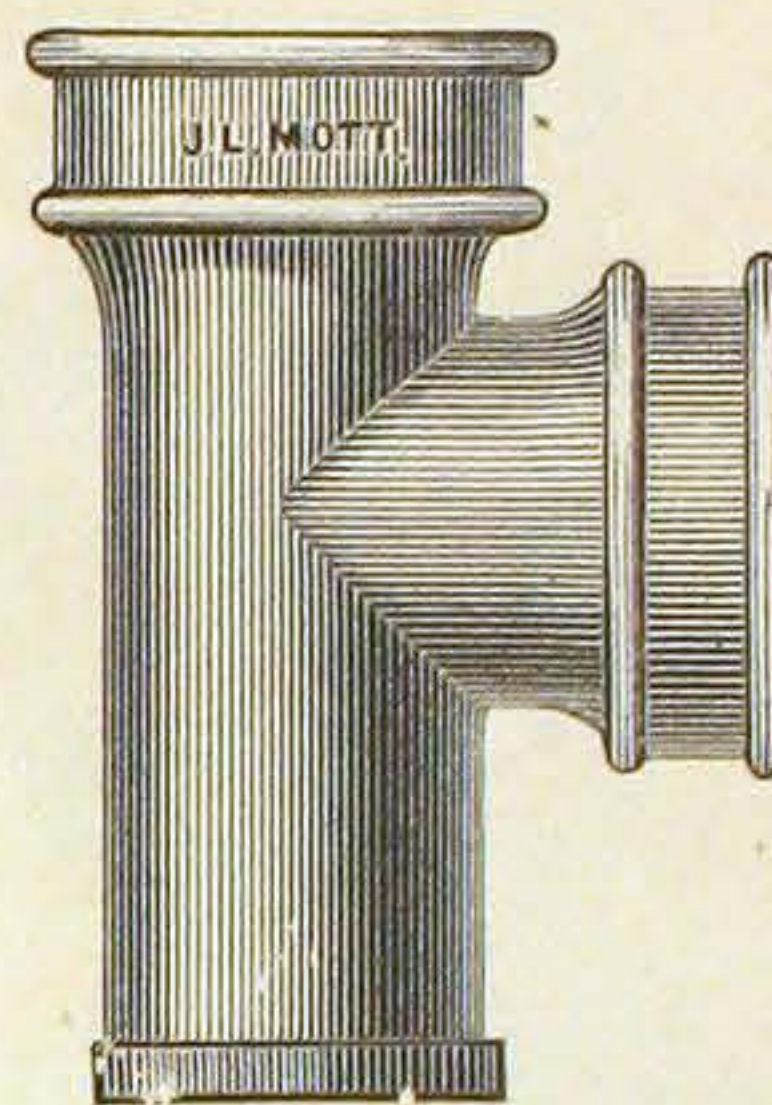
## RETURN BEND.

Fig. 905.



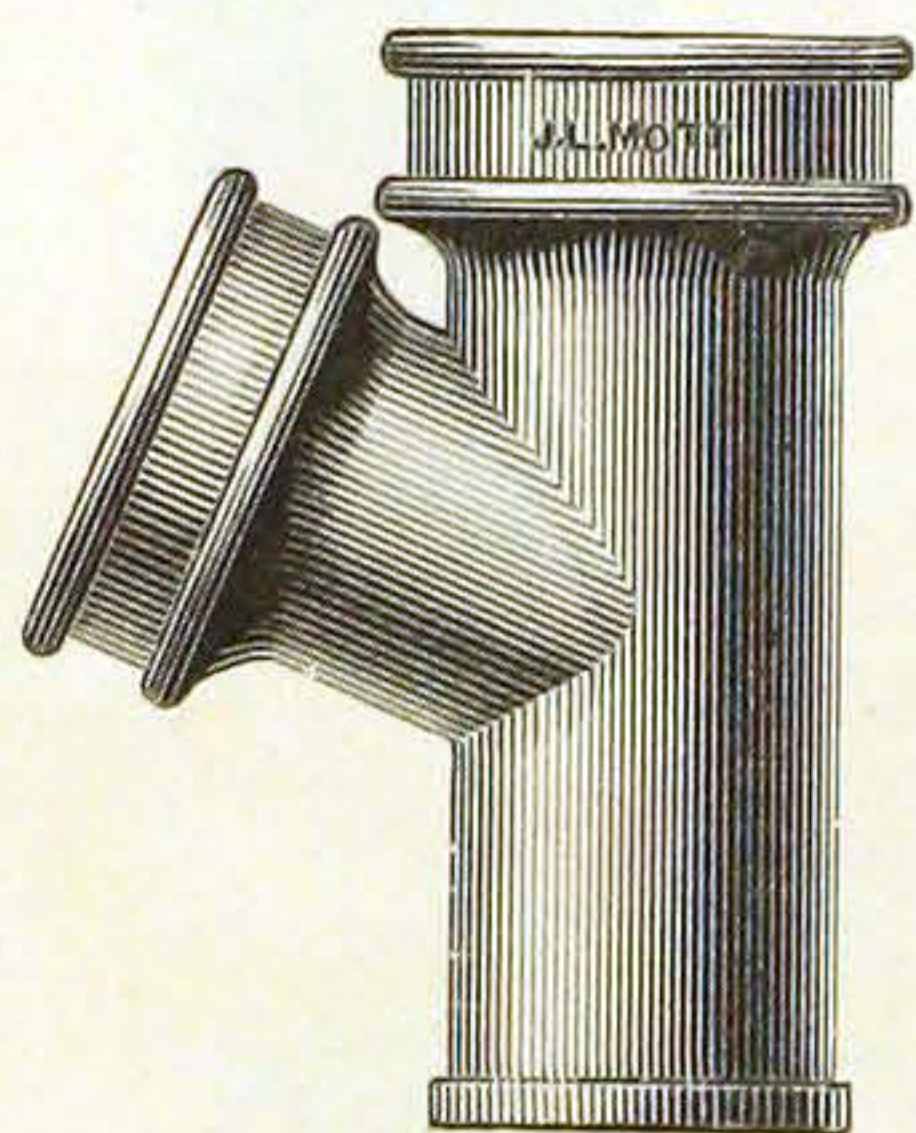
## T BRANCH.

Fig. 906.



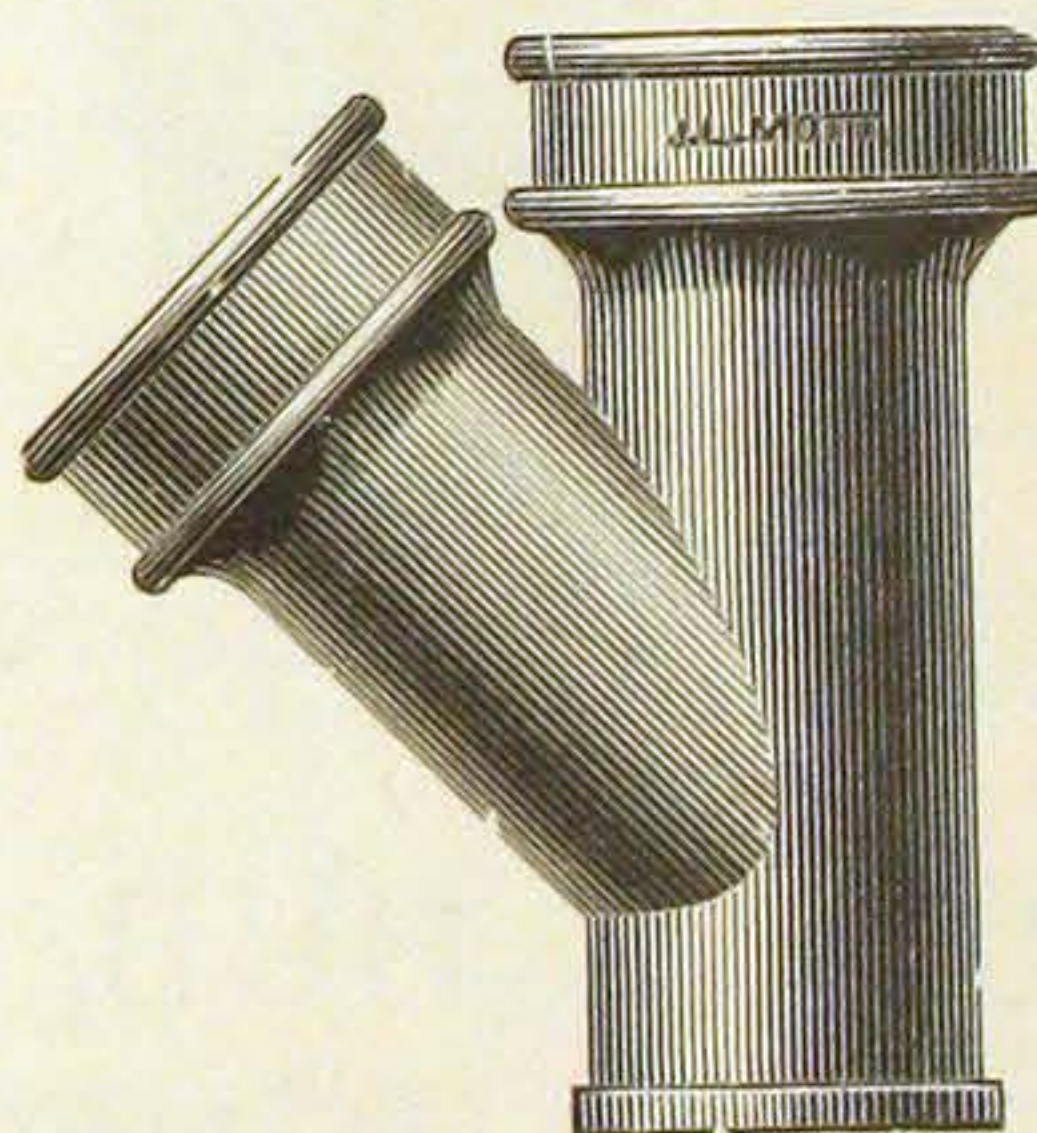
## HALF Y BRANCH.

Fig. 907.



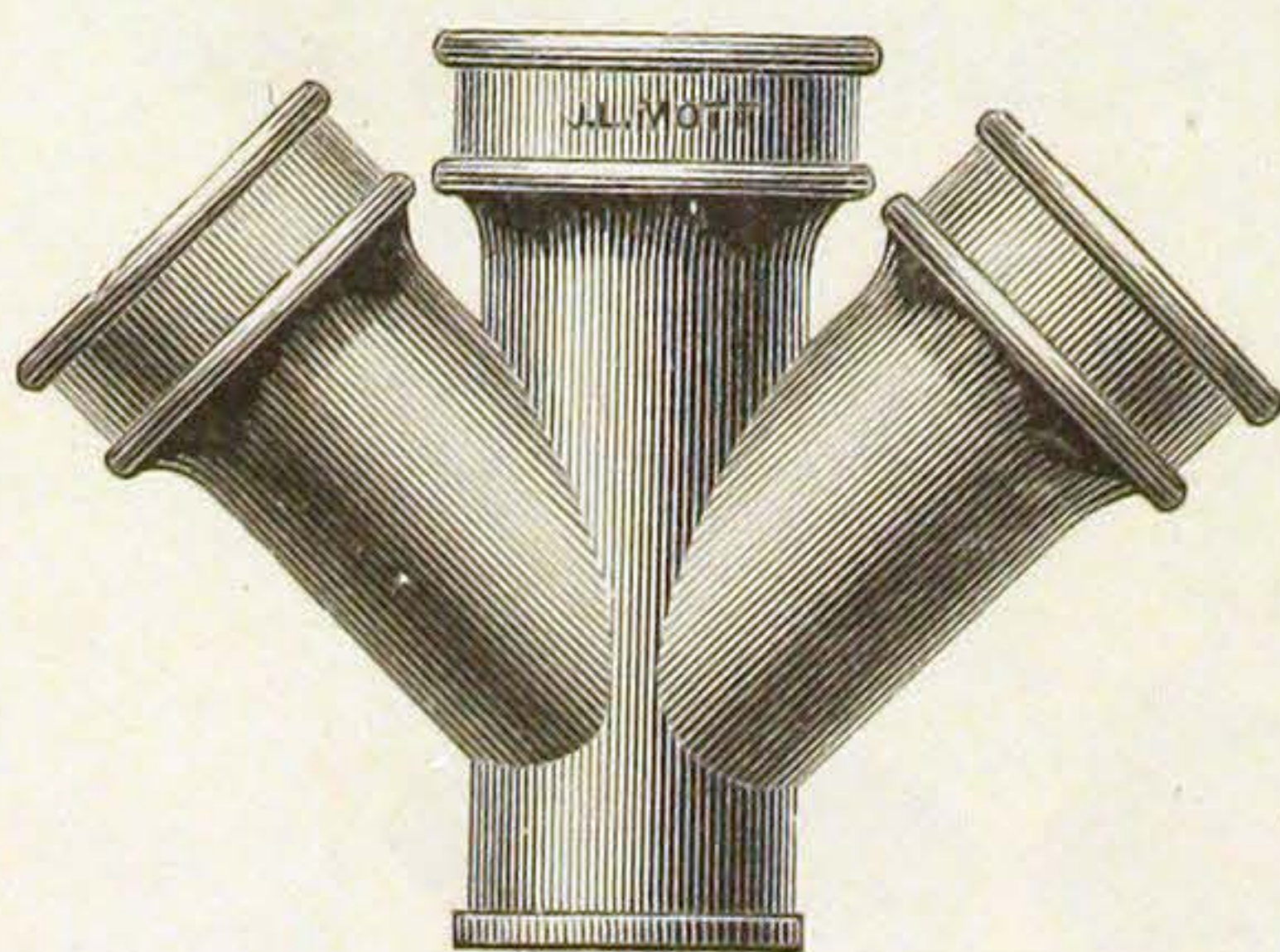
## Y BRANCH.

Fig. 908.



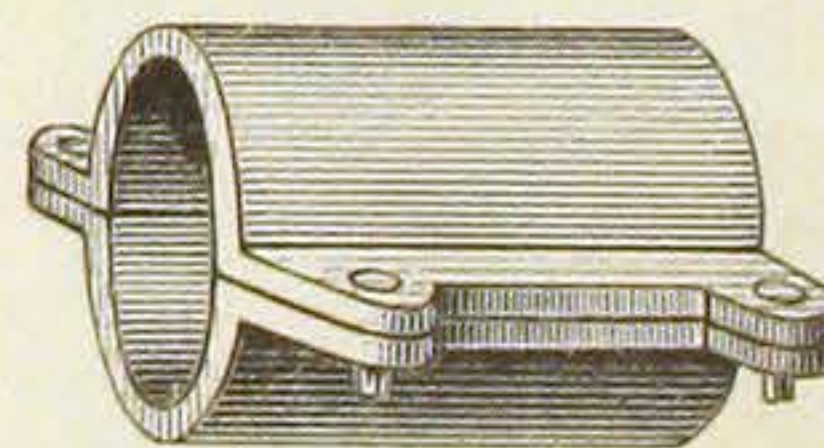
## DOUBLE Y BRANCH.

Fig. 909.



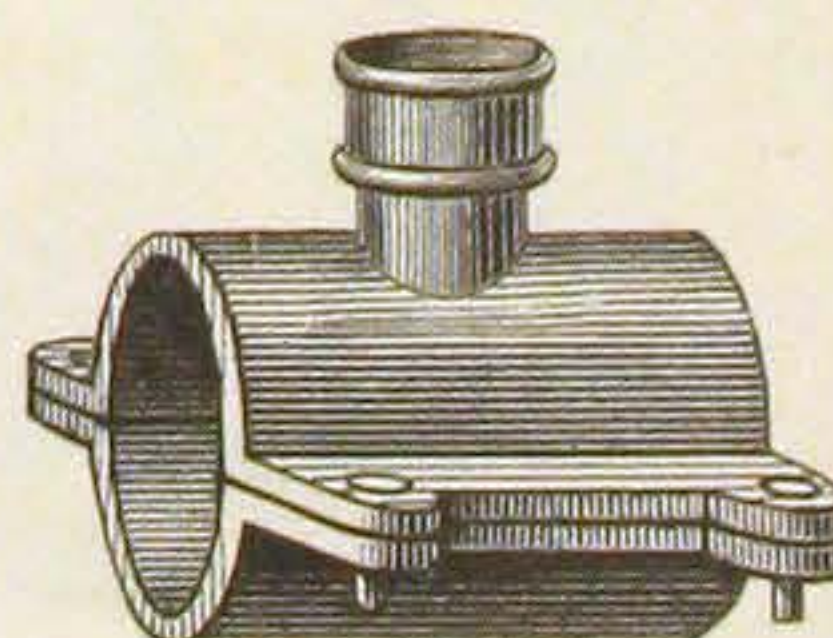
## BANDS.

Fig. 910.



## WITH OUTLETS.

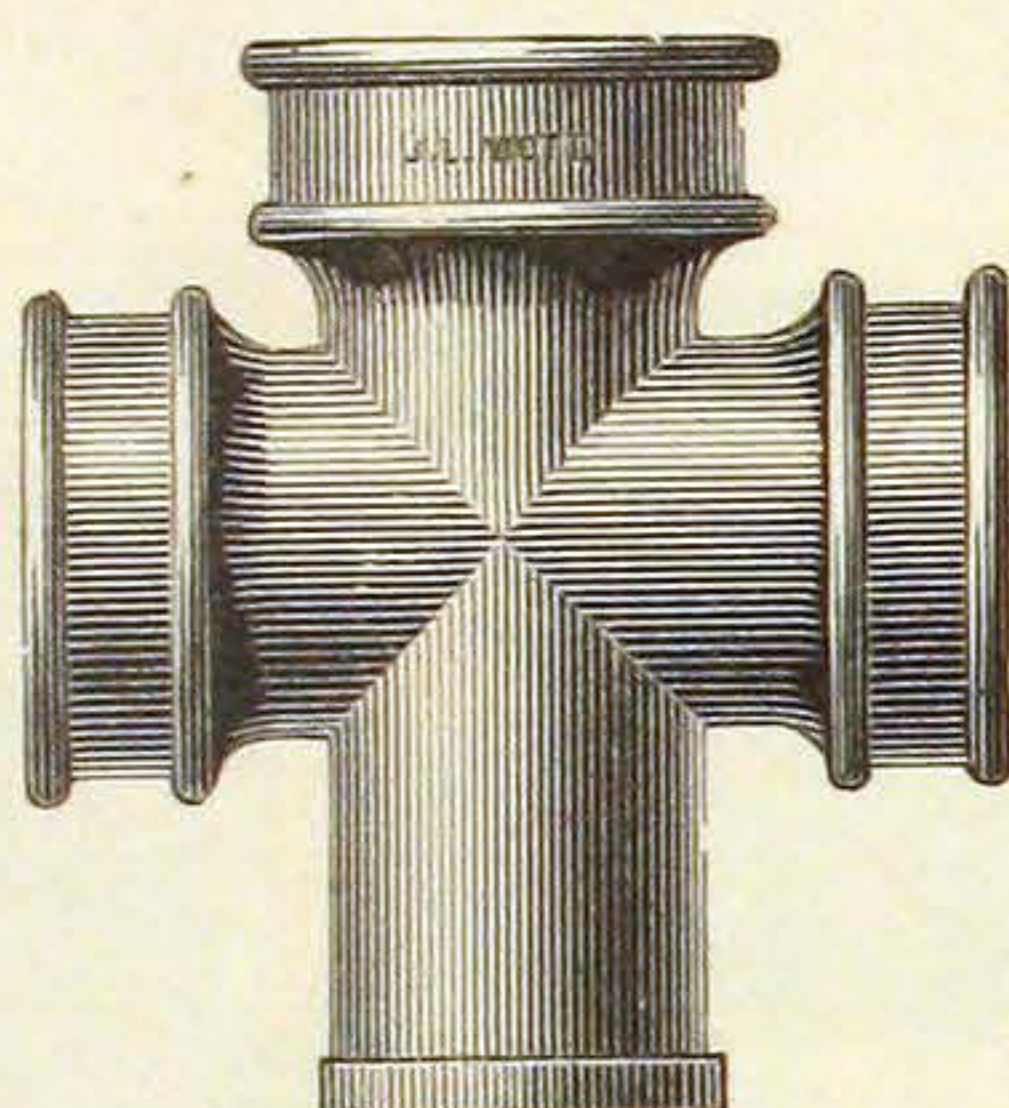
Fig. 911.





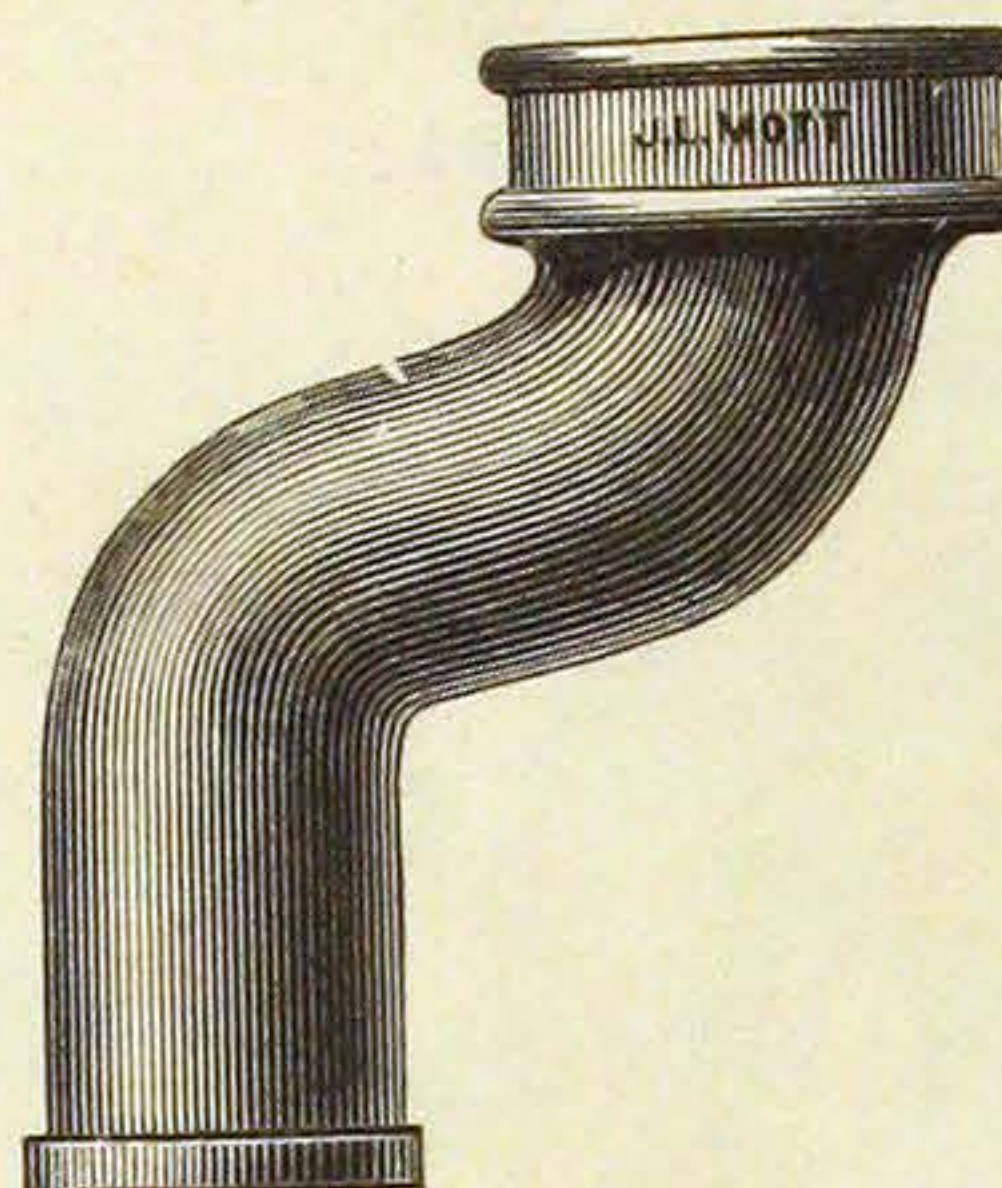
## Cross Head Branches.

**Fig. 912.**



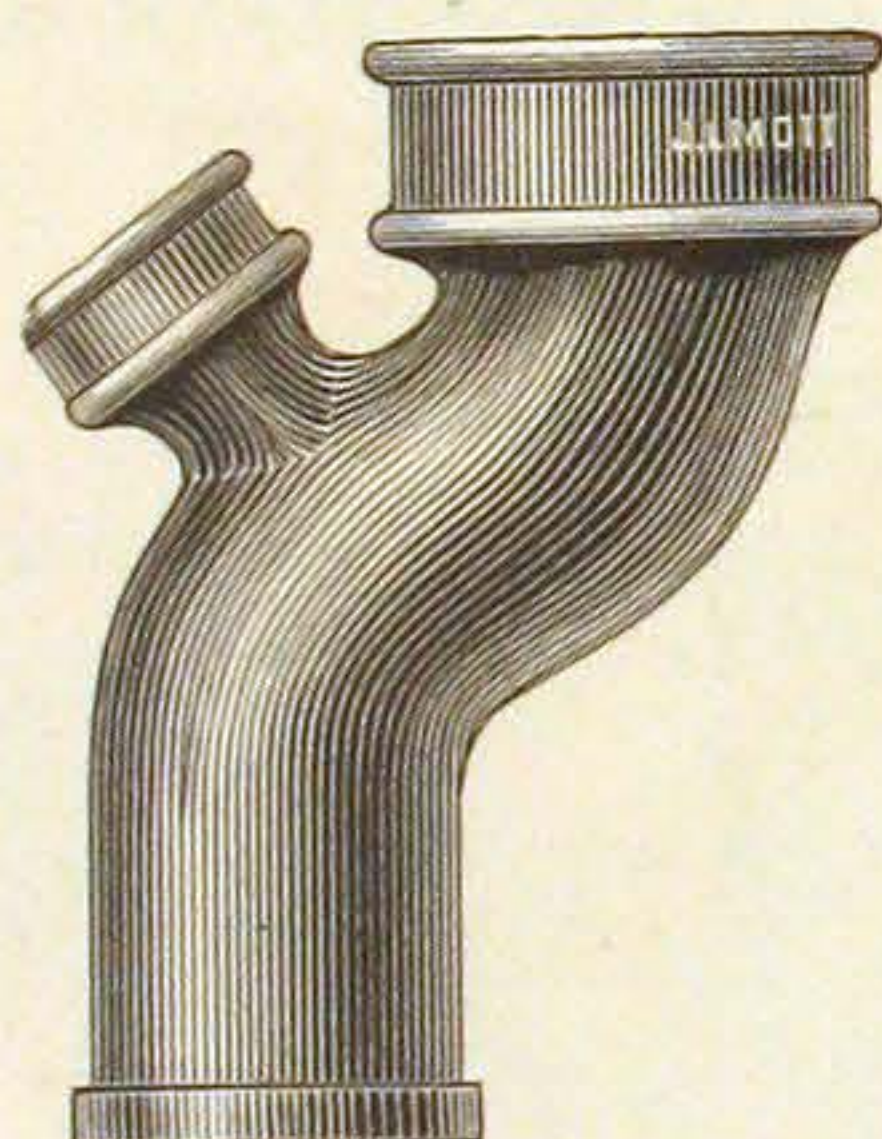
## Offset.

**Fig. 913.**



## Offset. WITH OUTLET.

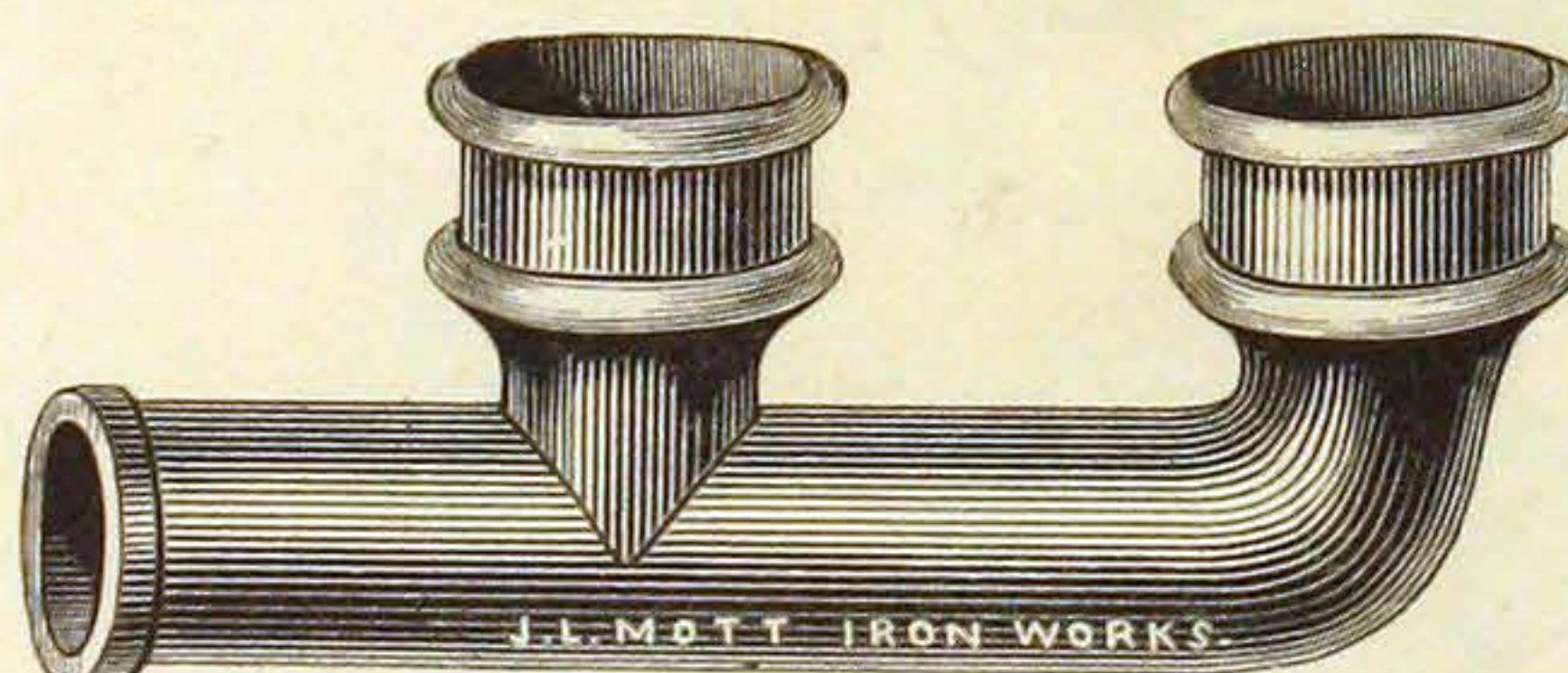
**Fig. 914.**



For Connecting 2 in. Pipe.

## Bath Tub Connection.

**Fig. 915.**



For Connecting Overflow and Waste.

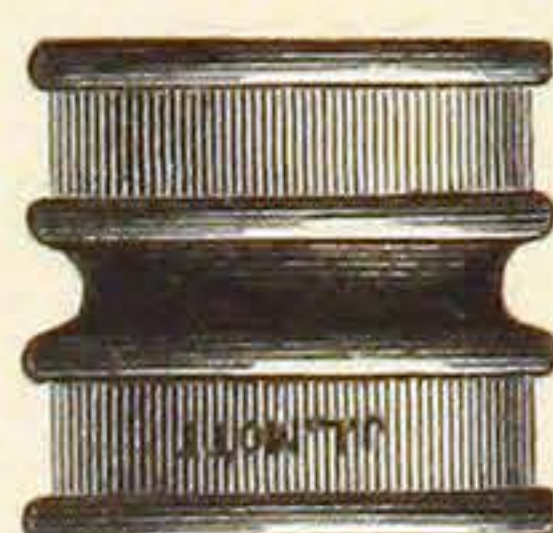
## Single Hubs.

**Fig. 916.**



## Double Hubs. Reducing Pieces.

**Fig. 917.**

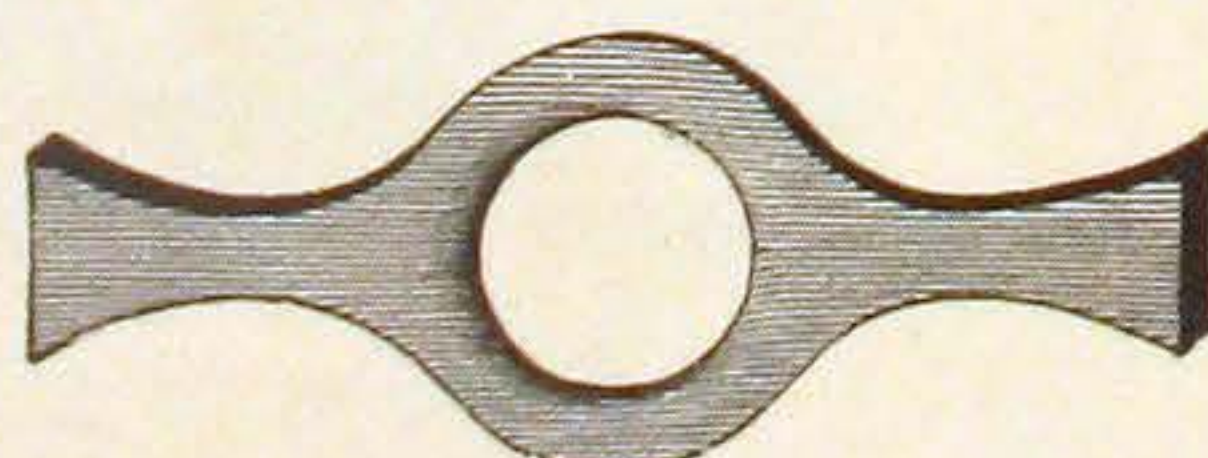


**Fig. 918.**



## Pipe Rests.

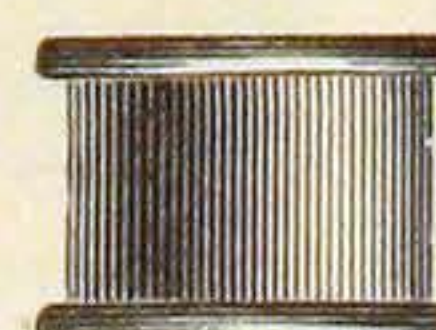
**Fig. 919.**



For sustaining Lead and Iron Soil Pipe.

## Straight Sleeves.

**Fig. 920.**

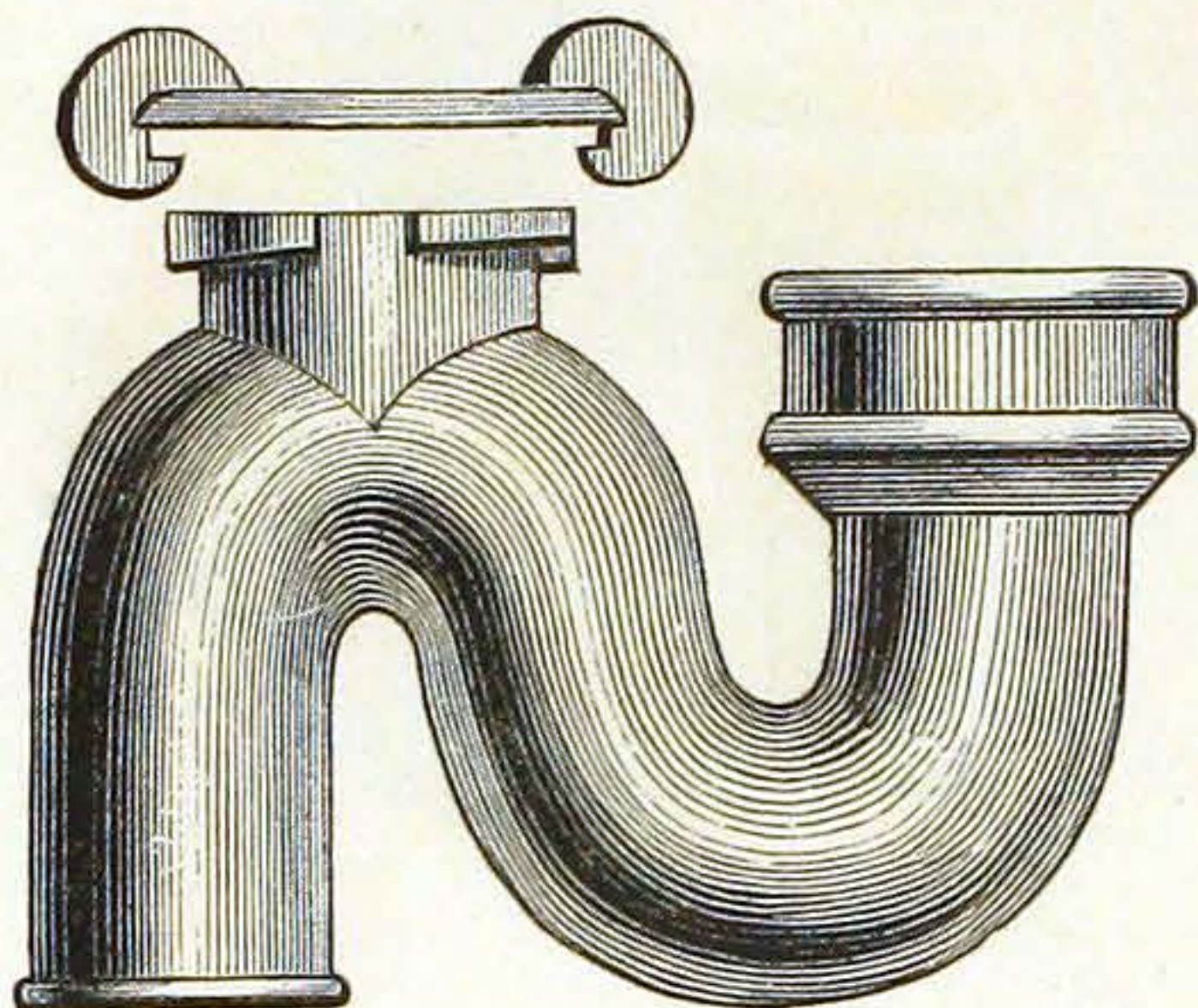




## TRAPS.

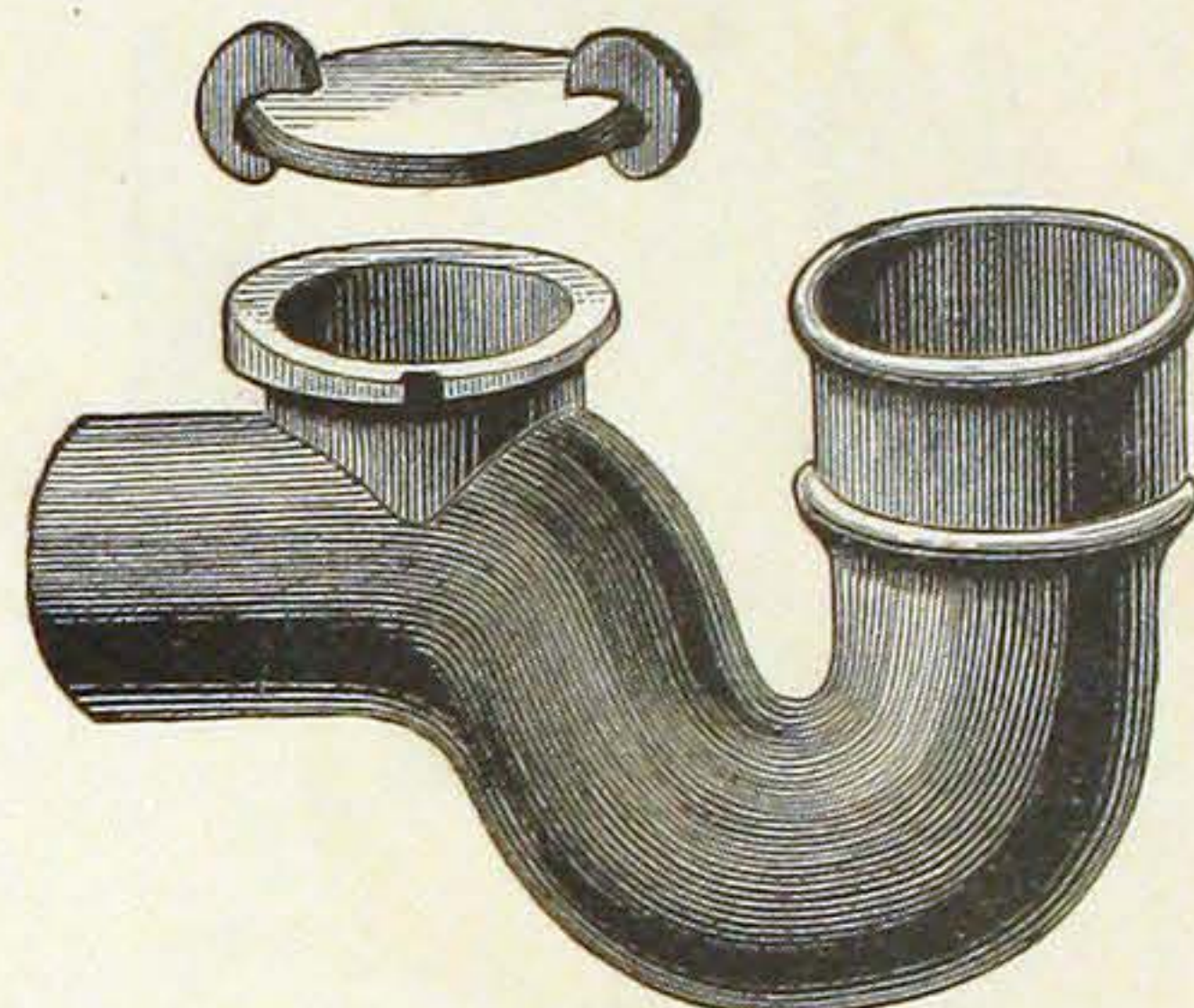
S TRAP.

Fig. 921.



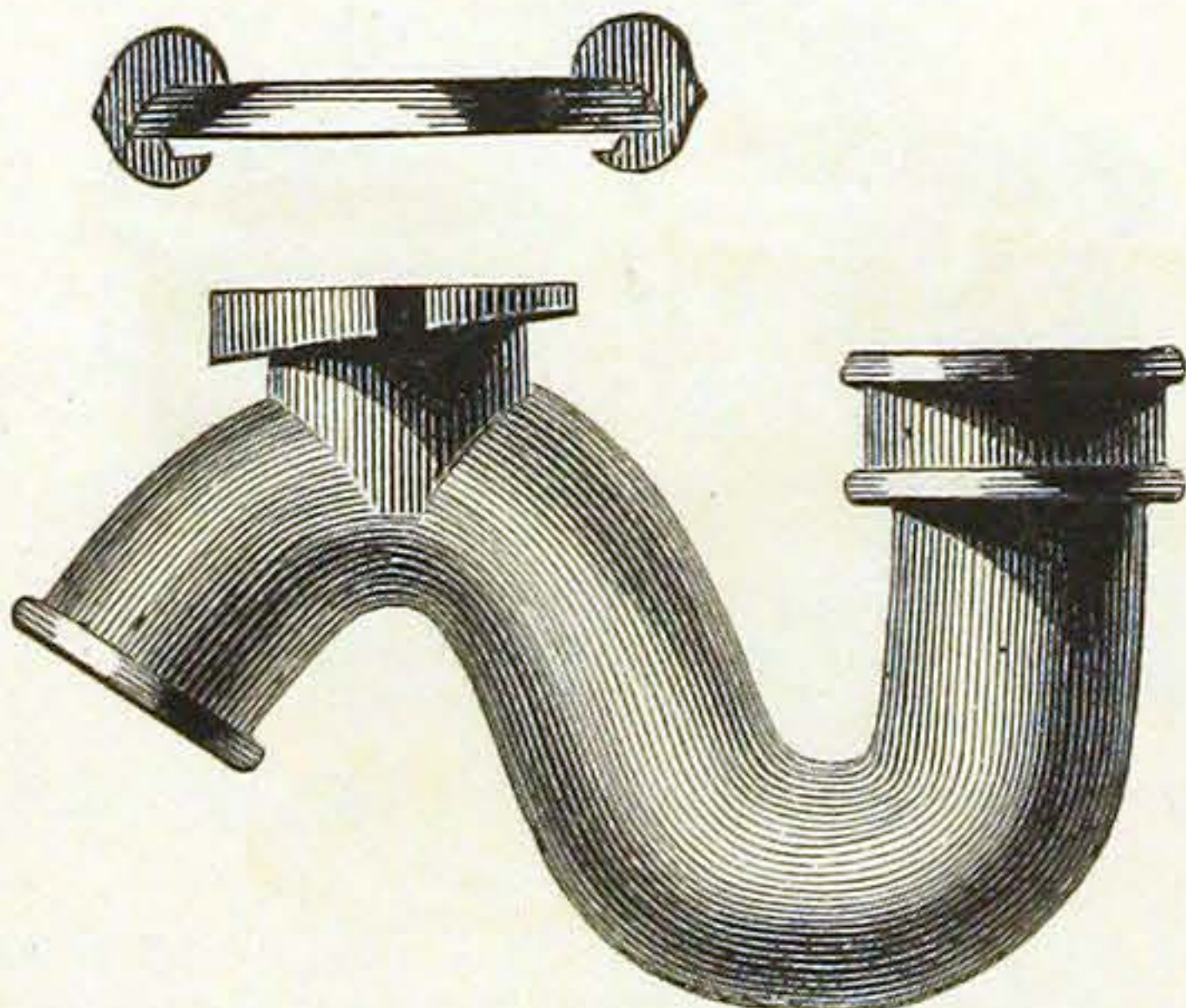
HALF S TRAP.

Fig. 922.



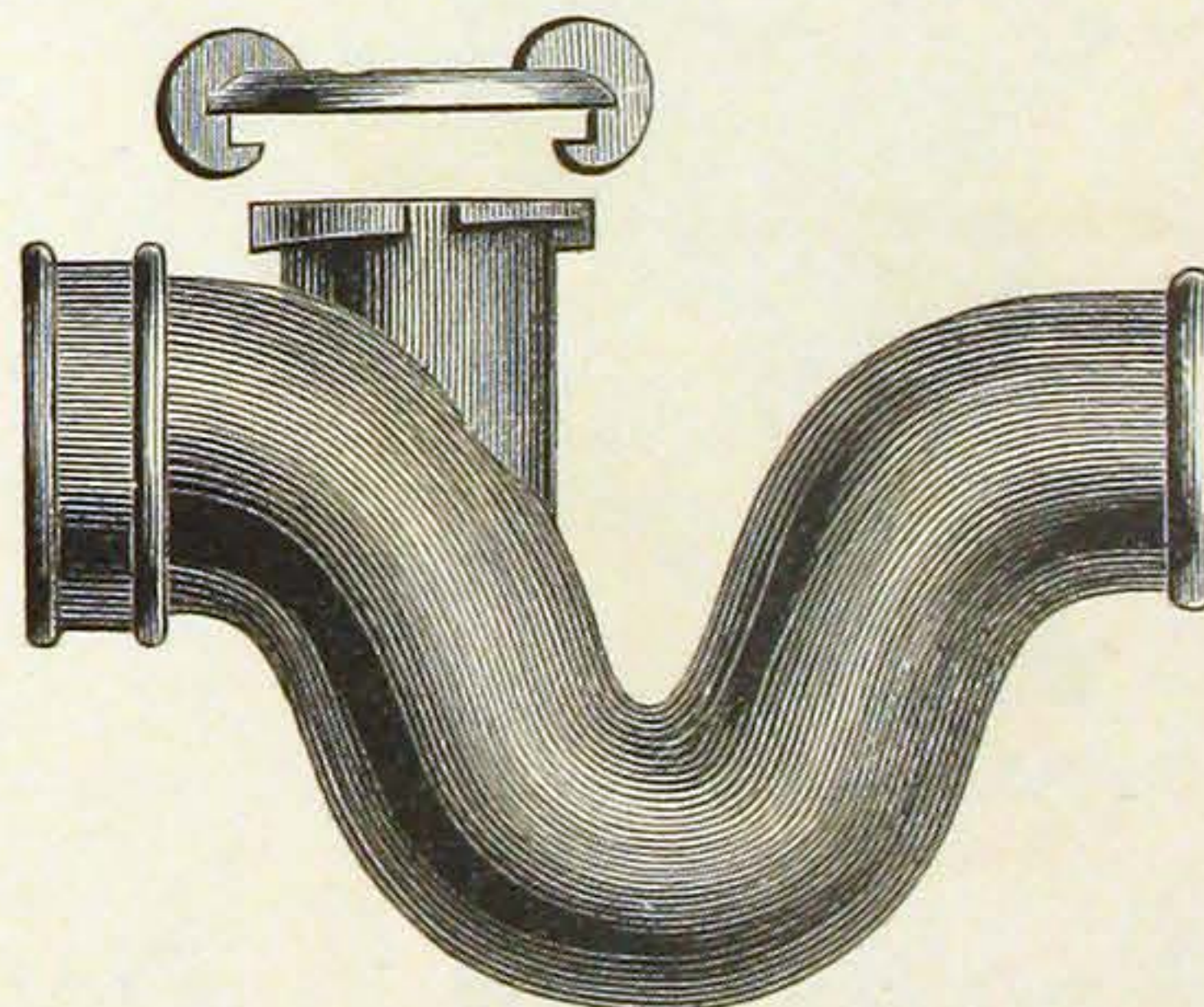
3-4 S TRAP.

Fig. 923.



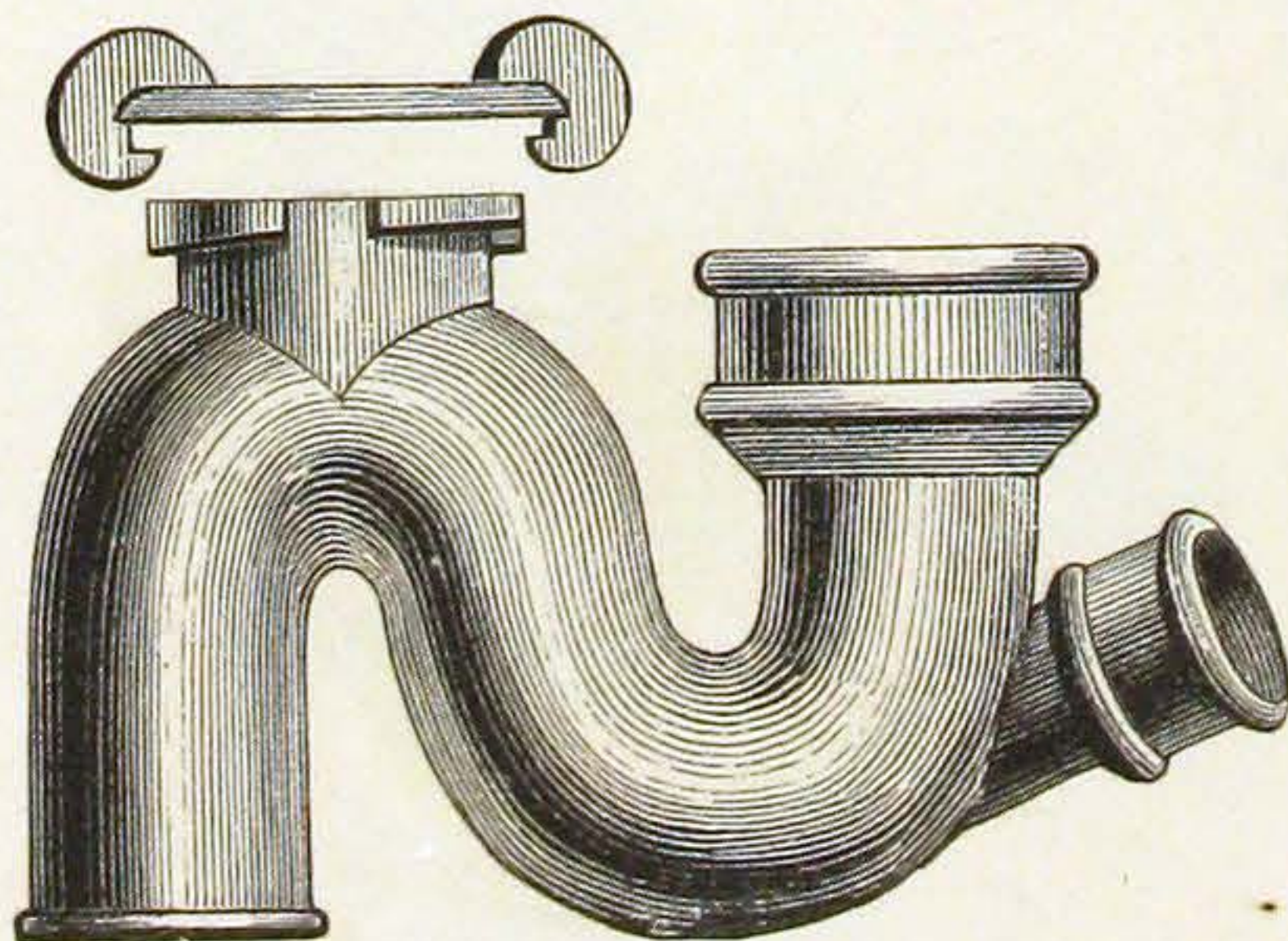
Running, with  
Opening for Cleaning out.

Fig. 924.



S TRAP.

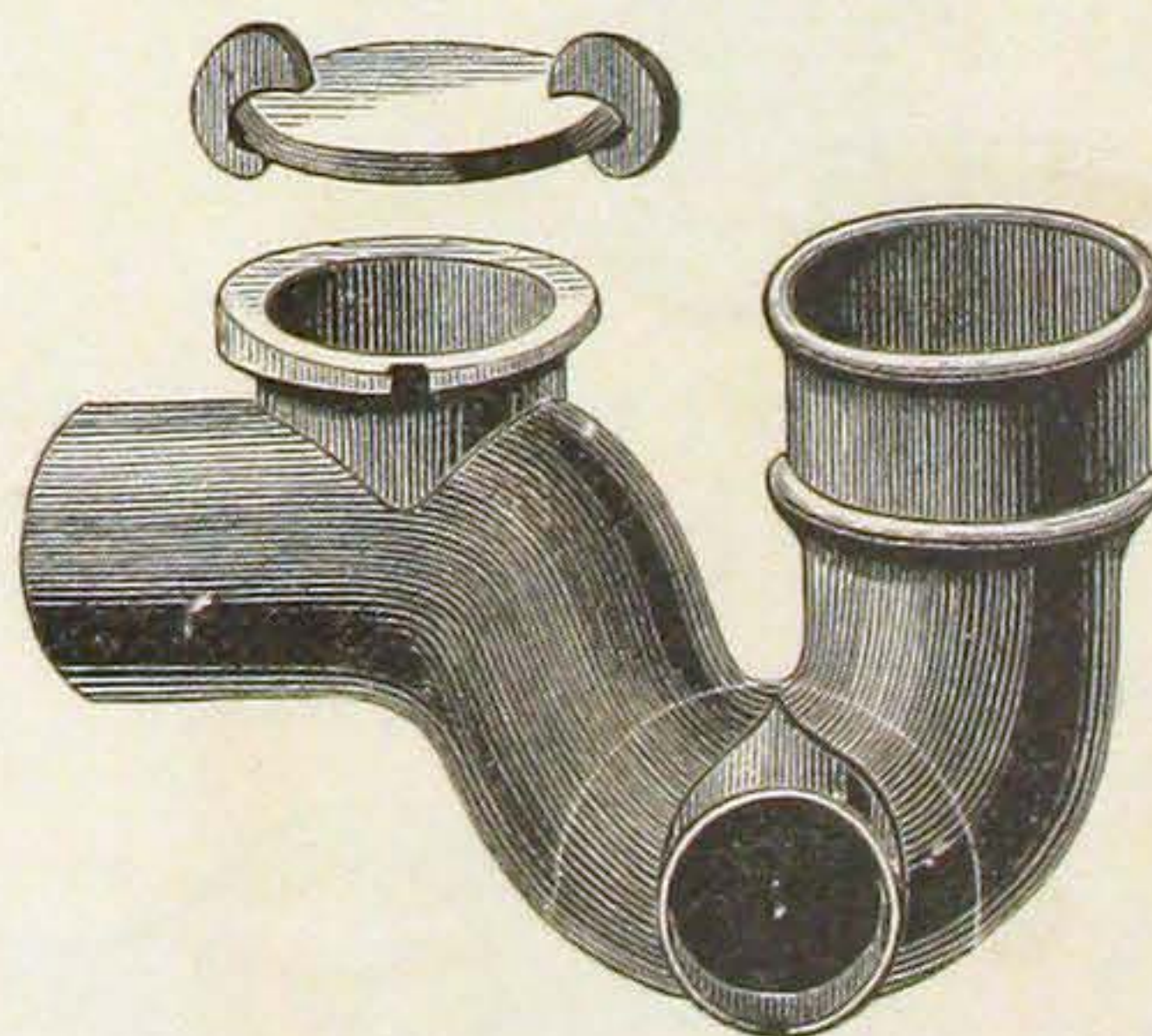
Fig. 925.



With Outlet on Heel.

HALF S TRAP.

Fig. 926.



With Outlet on Side.

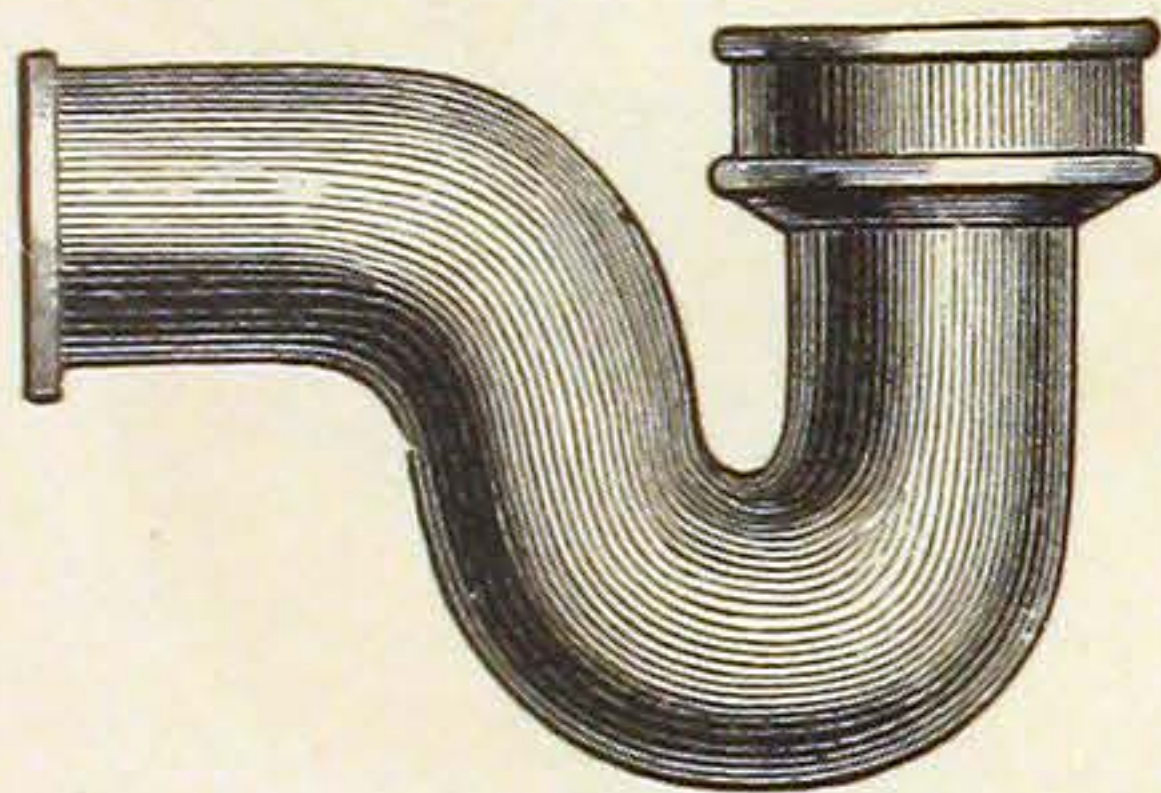
4 inches, with connection for 2 in. Pipe.



# TRAPS.

Half S.

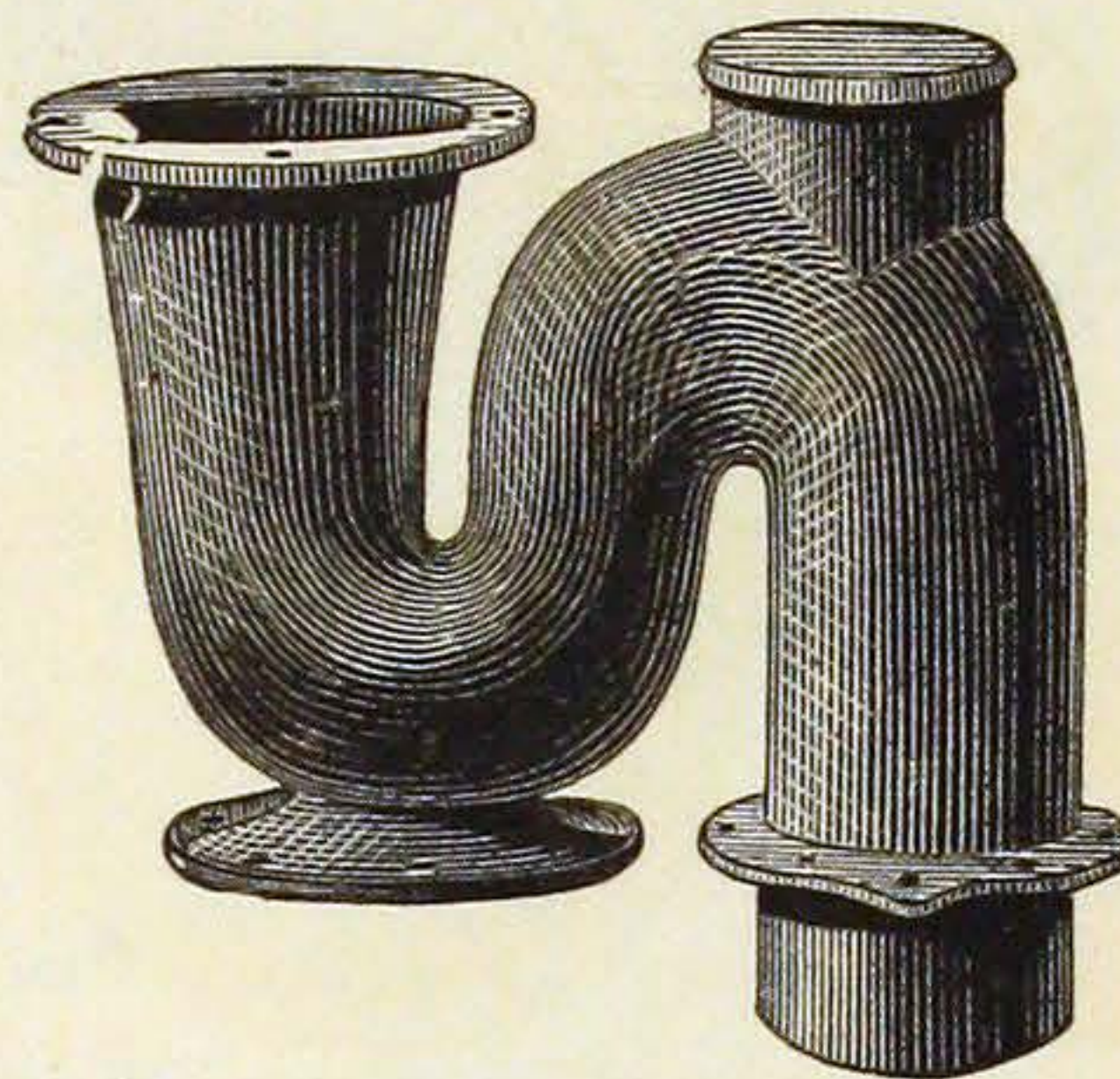
Fig. 927.



4 inches, without hand opening.

S Hopper, Flanged.

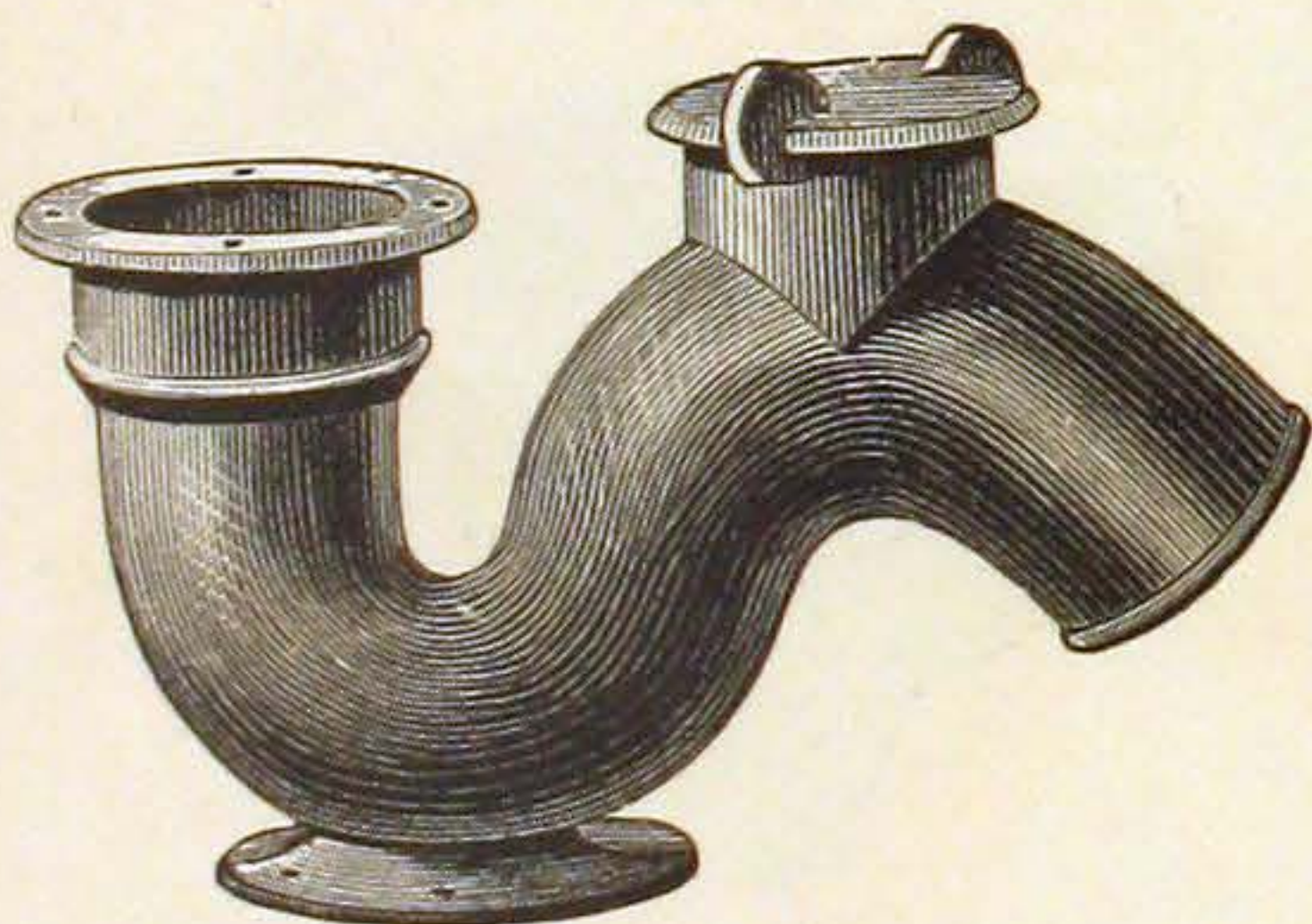
Fig. 928.



4 inches.

3-4 S Hopper, Flanged.

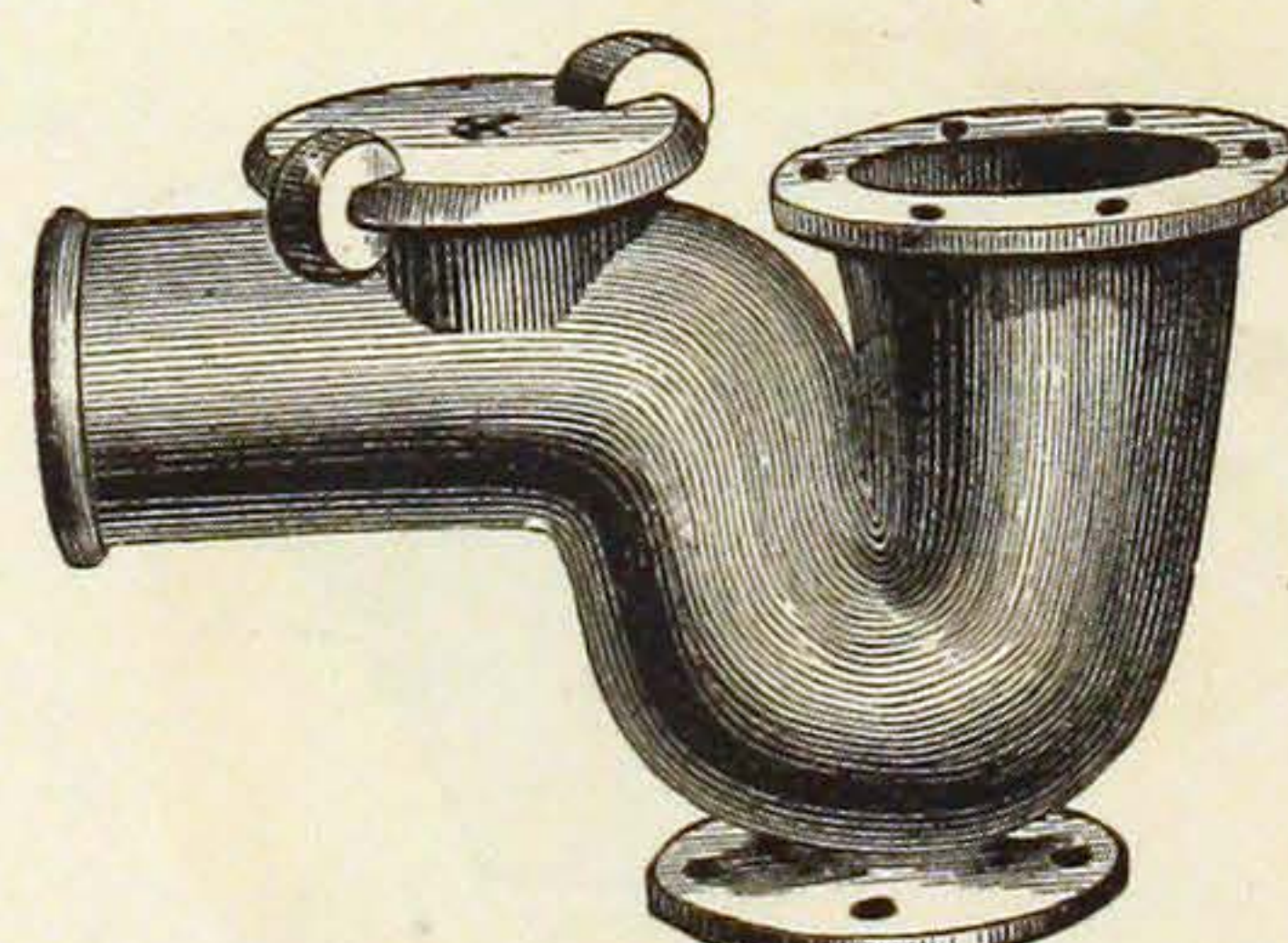
Fig. 929.



4 inches.

Half S Hopper, Flanged.

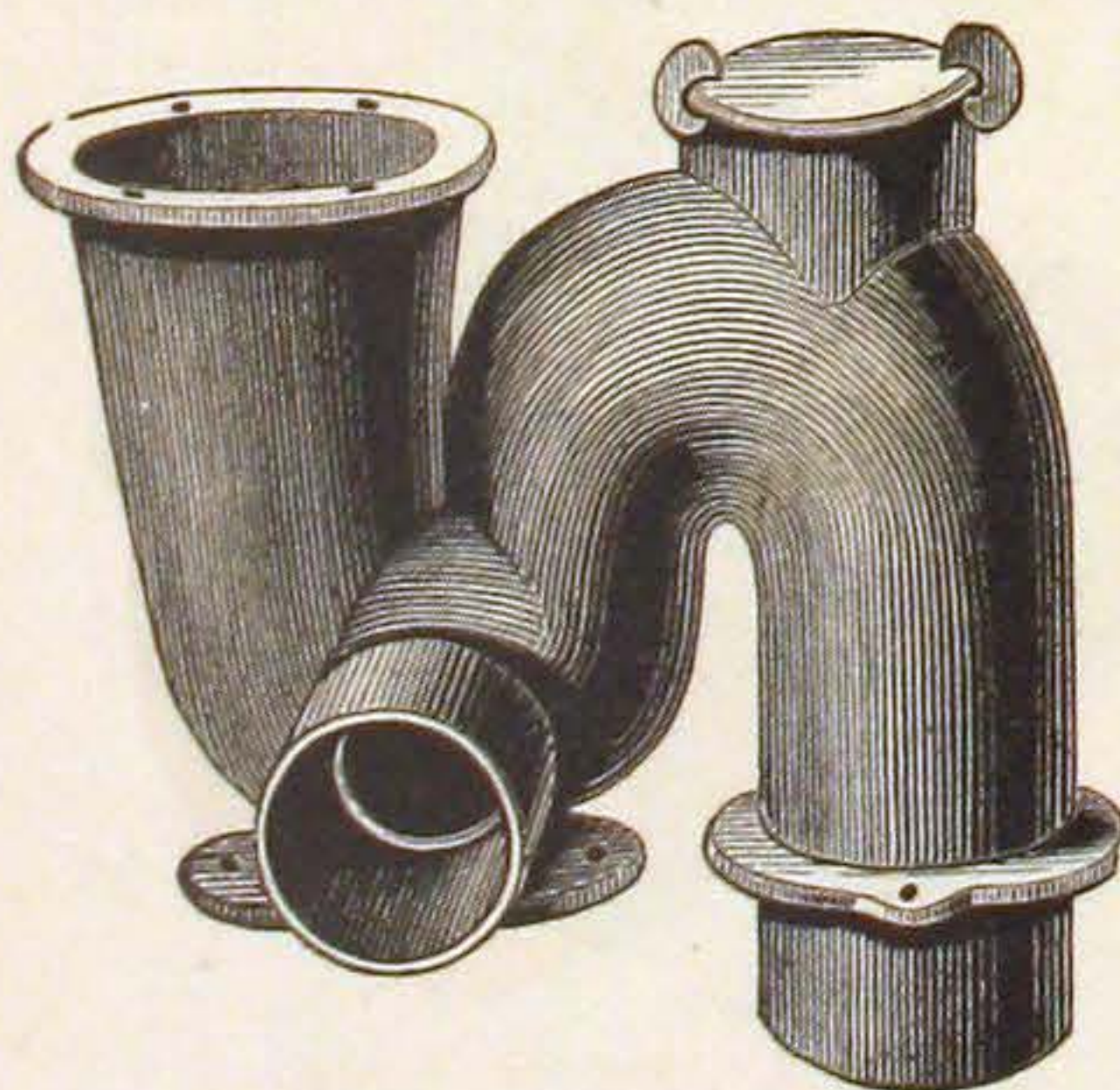
Fig. 930.



4 inches.

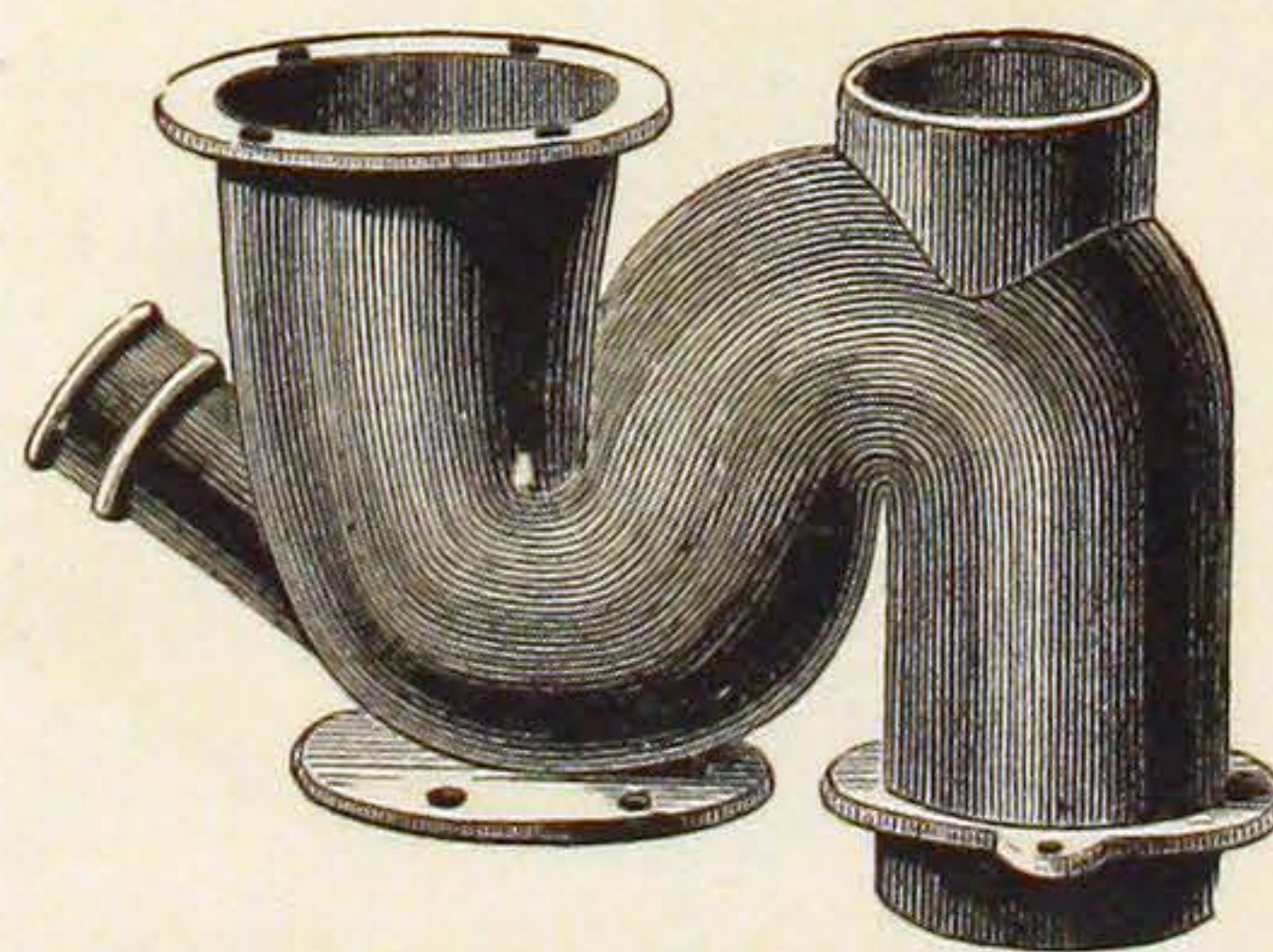
S Hopper Traps, Flanged.

Fig. 931.



With 2 in. outlet on right or left side.

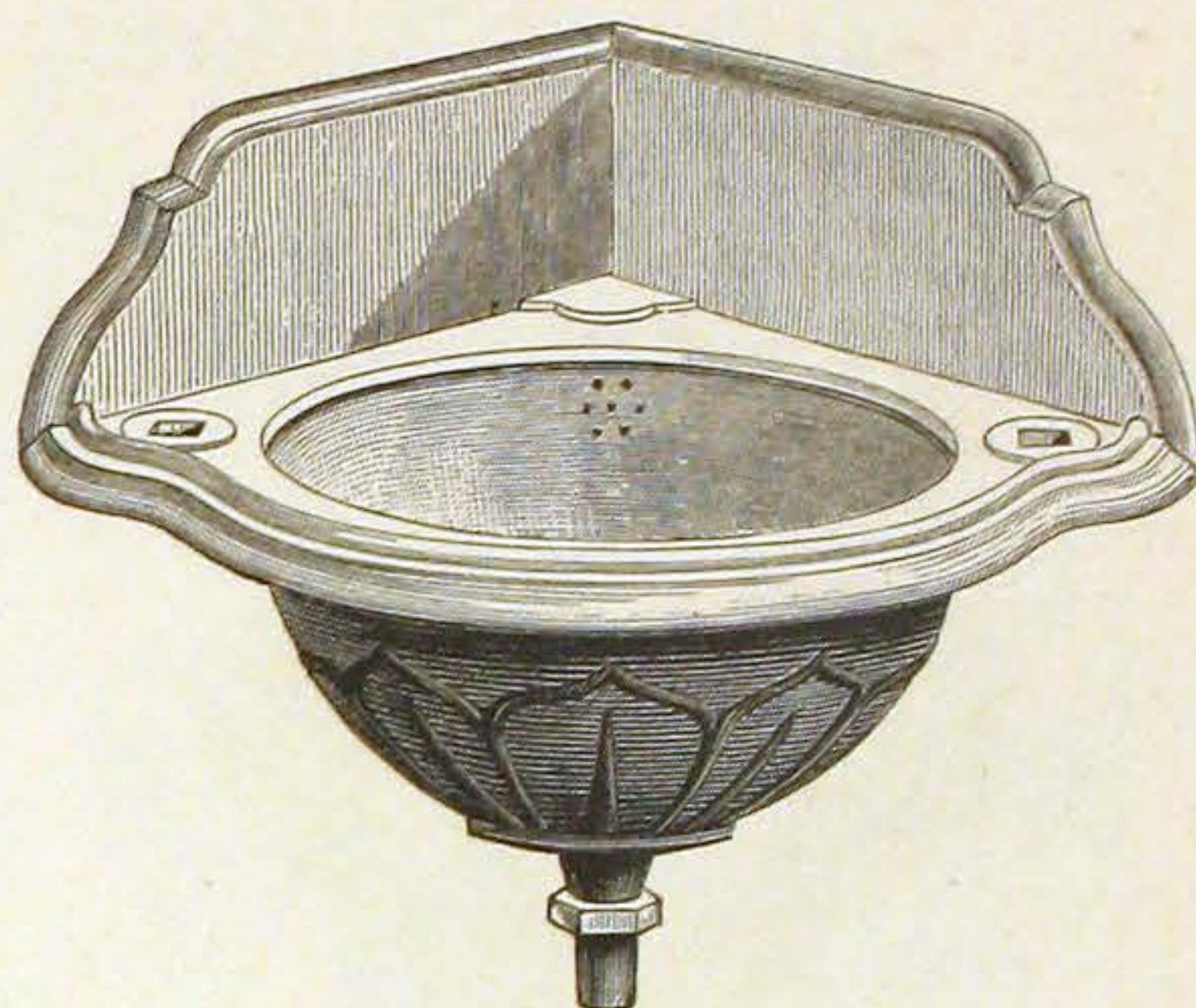
Fig. 932.



With 2 in. outlet on heel.



## WASH BASINS.

**Fig. 933.****Fig. 933½.**

Plain, Painted and Enameled.

Sizes, 12 inch. 14 inch. 15 inch. 16 inch.

## CLOSET BOWLS.

Oval Closet Bowl. Round French Closet Bowl.

**Fig. 934.****Fig. 935.**

Plain, Painted and Enameled.

## SHORT HOPPERS.

French Pattern,  
With Side Arm.**Fig. 936.**With Lugs,  
For Seat Attachment.**Fig. 937.**

Plain, Painted and Enameled.

Size, 14½ x 8 inch. 4 inch Outlet.



## HOPPERS.

Philadelphia.

New Pattern.

**Fig. 938.**



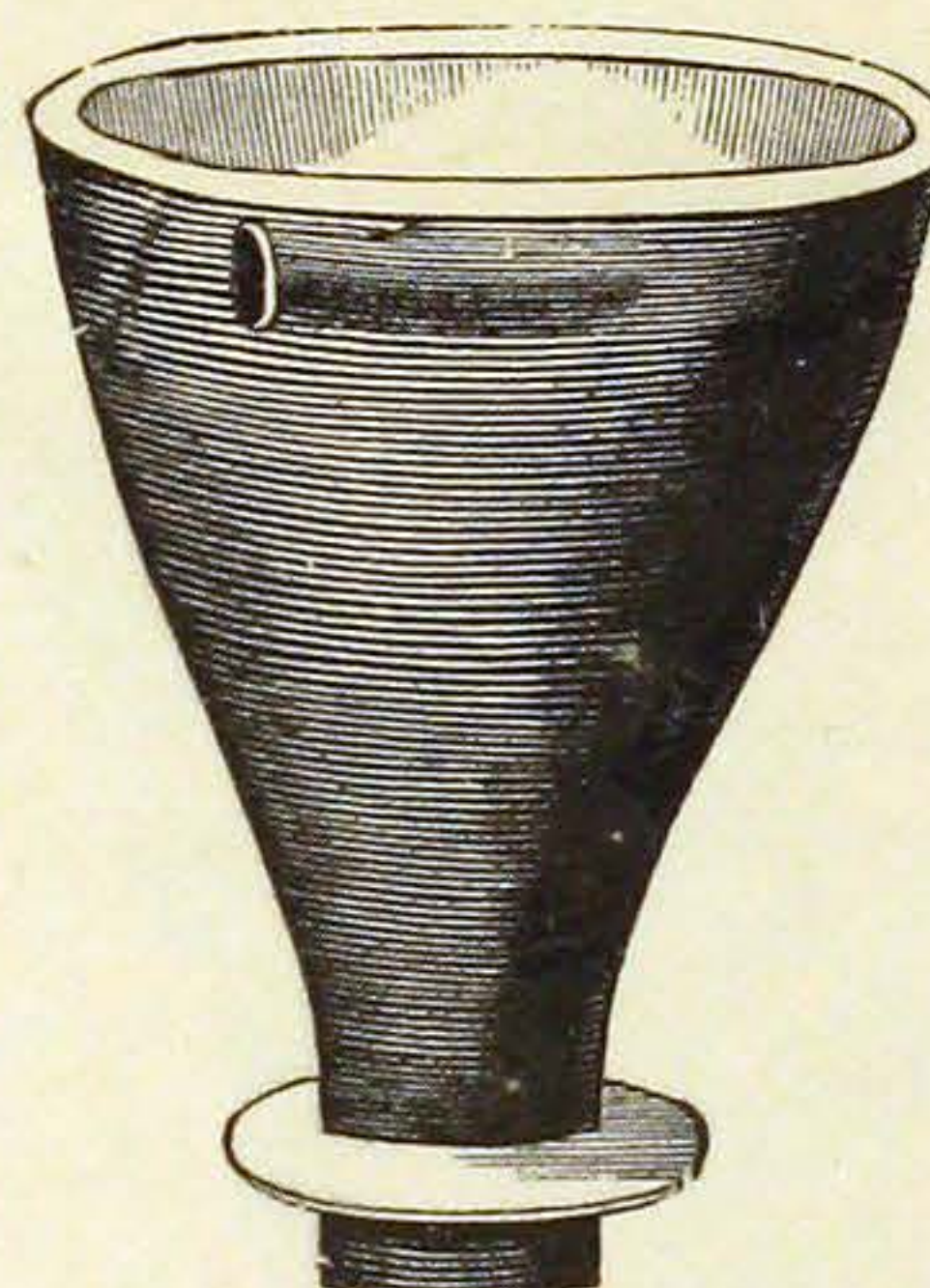
Plain, Painted and Enameled.

14 in. diam. 16 in. high. 4 in. outlet.

Mott's Pattern.

With Side or Straight Arms.

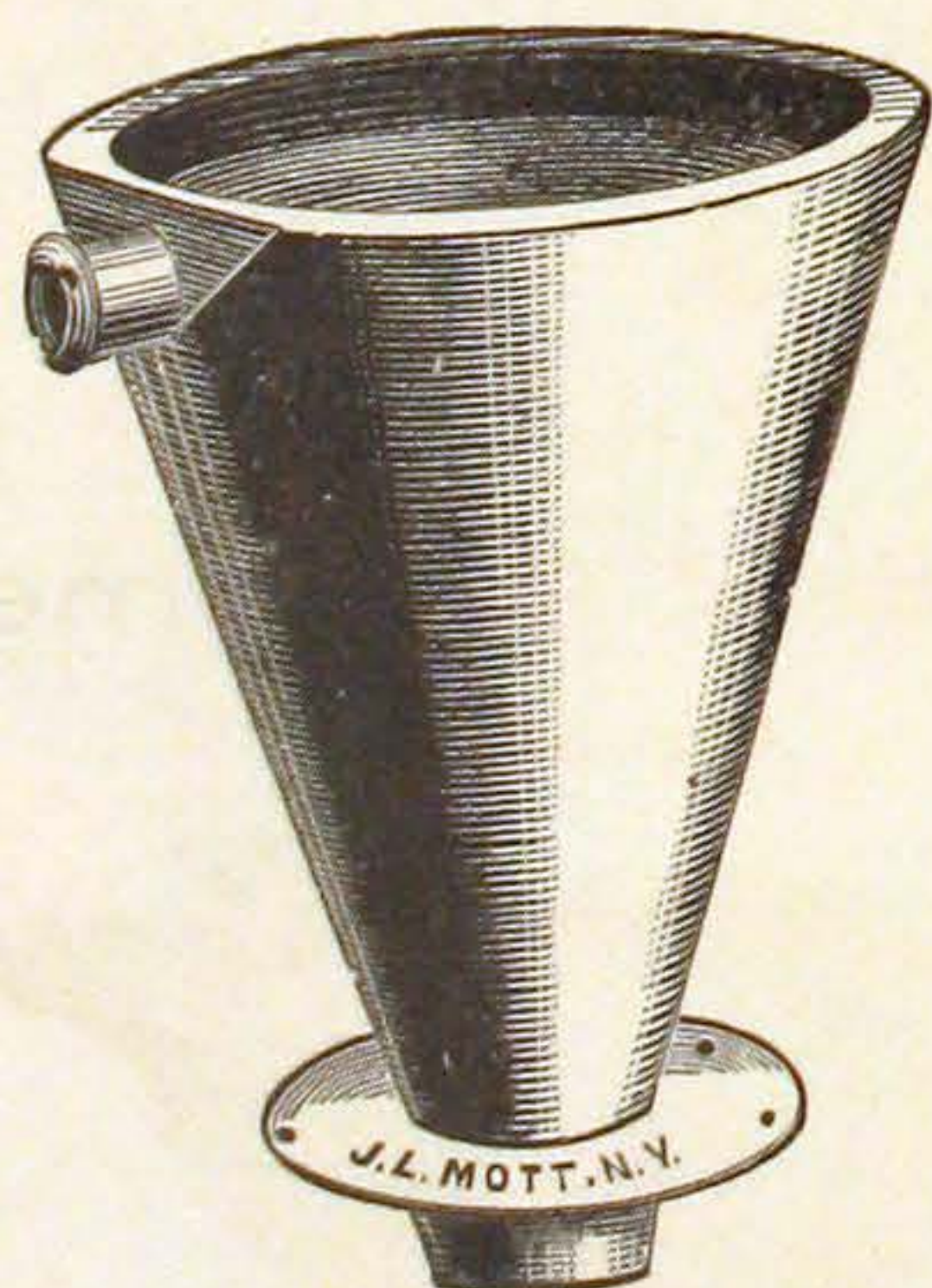
**Fig. 939.**



14½ in. diam. 16 in. high. 4 in. outlet.

English Hopper.

**Fig. 940.**



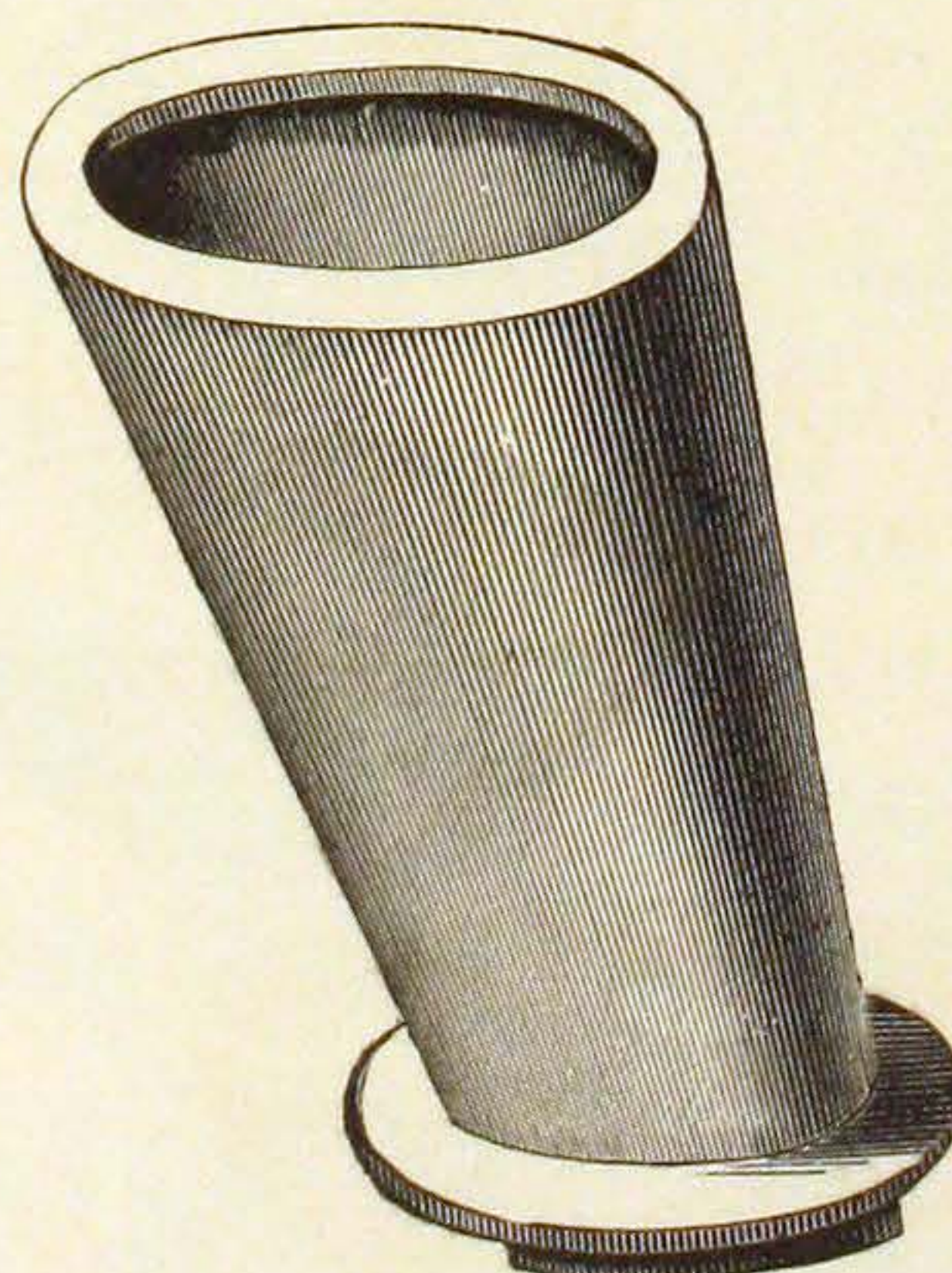
Short Arm.

Plain, Painted and Enameled.

14 in. diam. 17½ in. high. 4 in. outlet.

Springfield Car Hopper.

**Fig. 941.**





OVAL CLOSET BOWL.      SHORT HOPPER.  
WITH FULL S IRON TRAP,  
FOR LEAD PIPE CONNECTION.

Fig. 942.

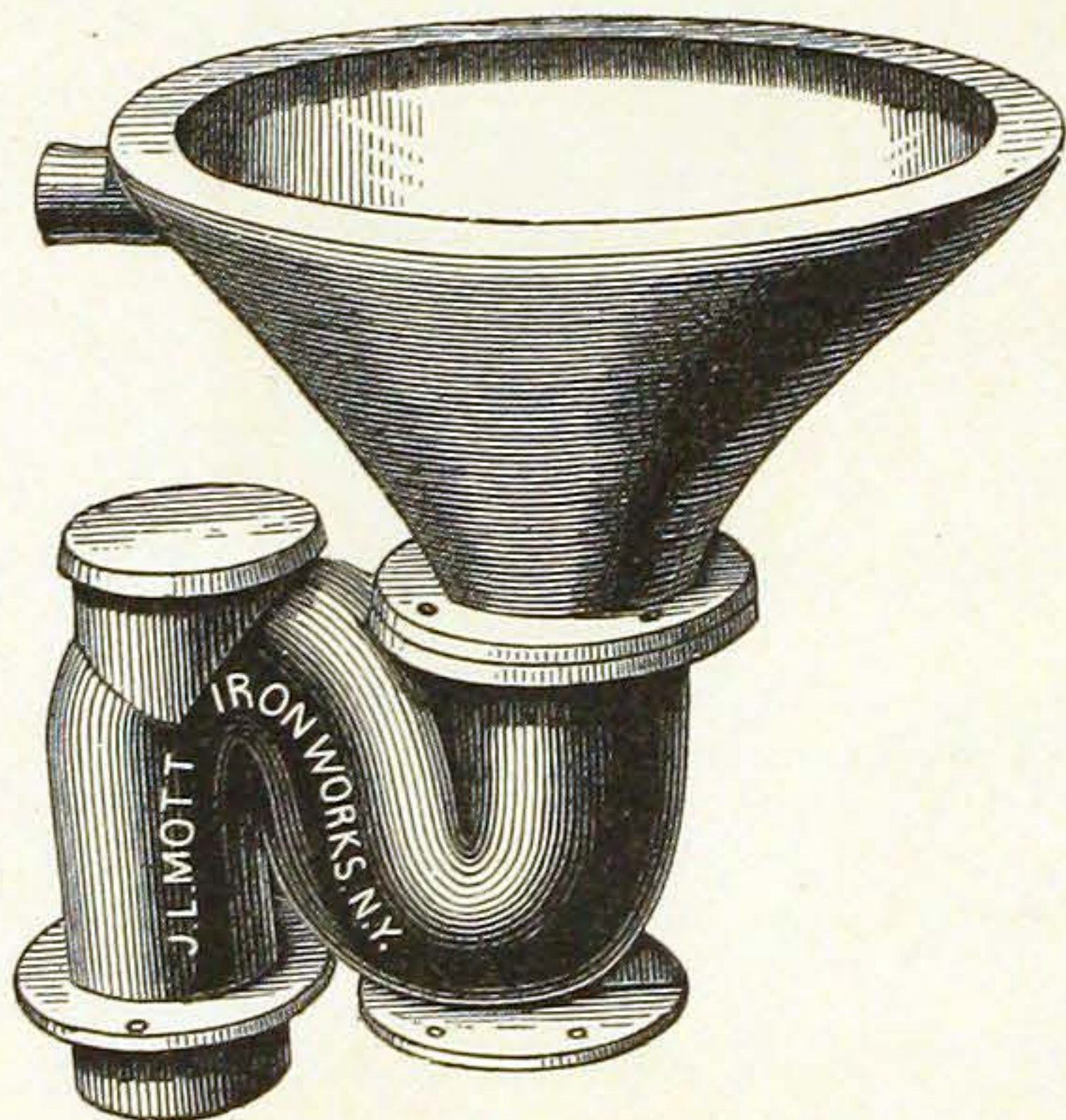
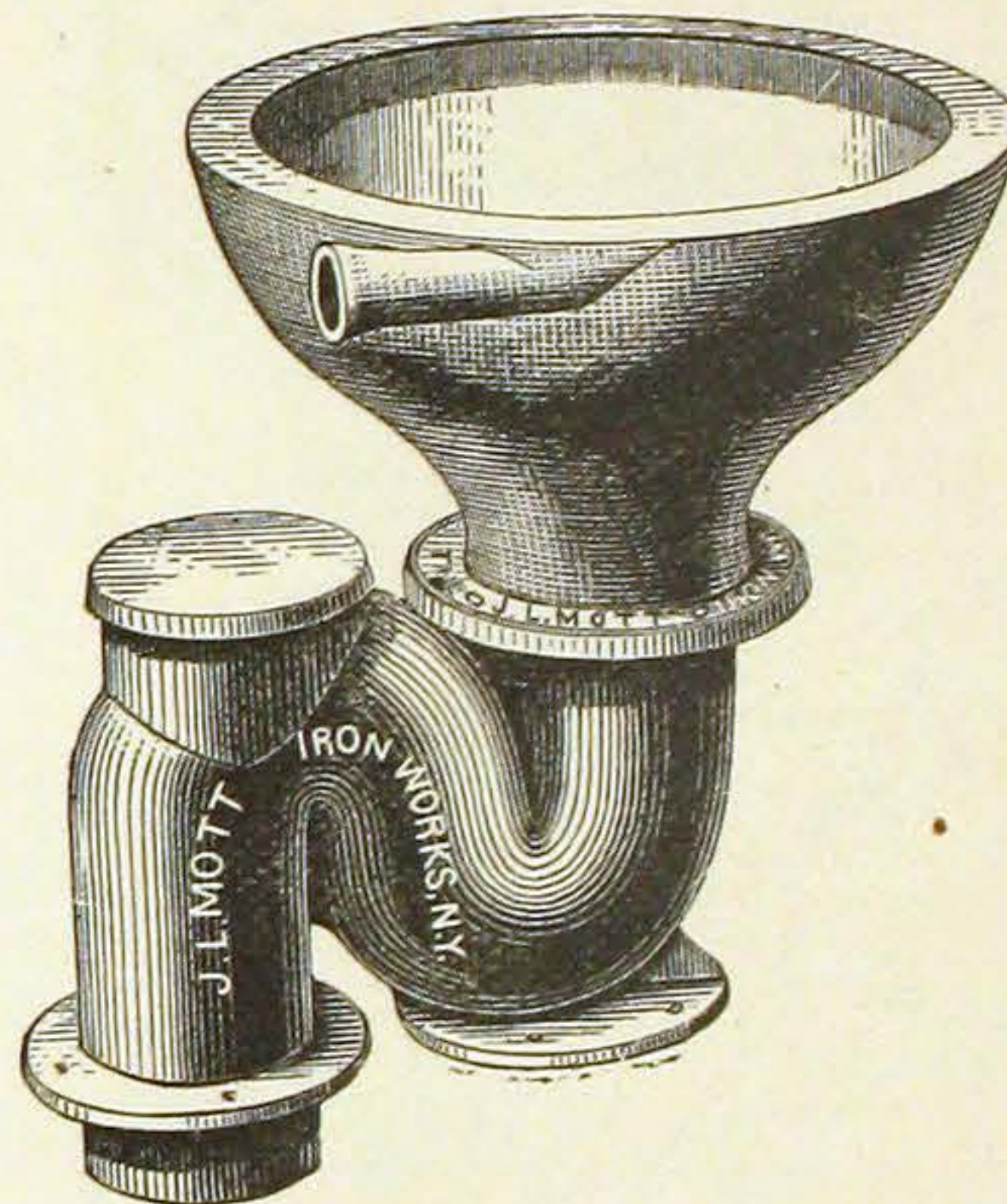


Fig. 943.



Plain, Painted and Enameled.

SHORT HOPPERS.  
WITH HALF      WITH THREE-QUARTER.  
S IRON TRAP.      S IRON TRAP.

Fig. 944.

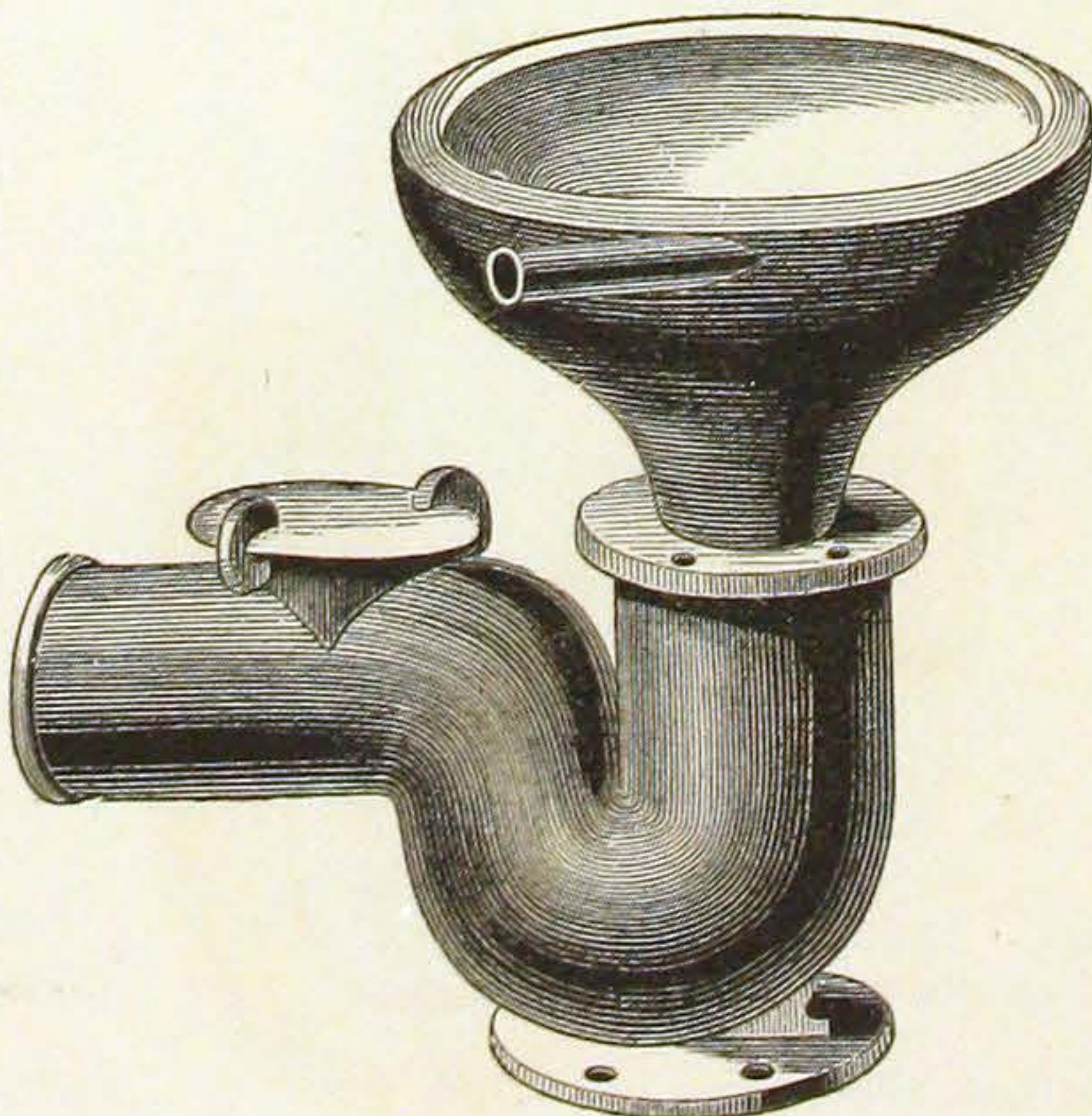
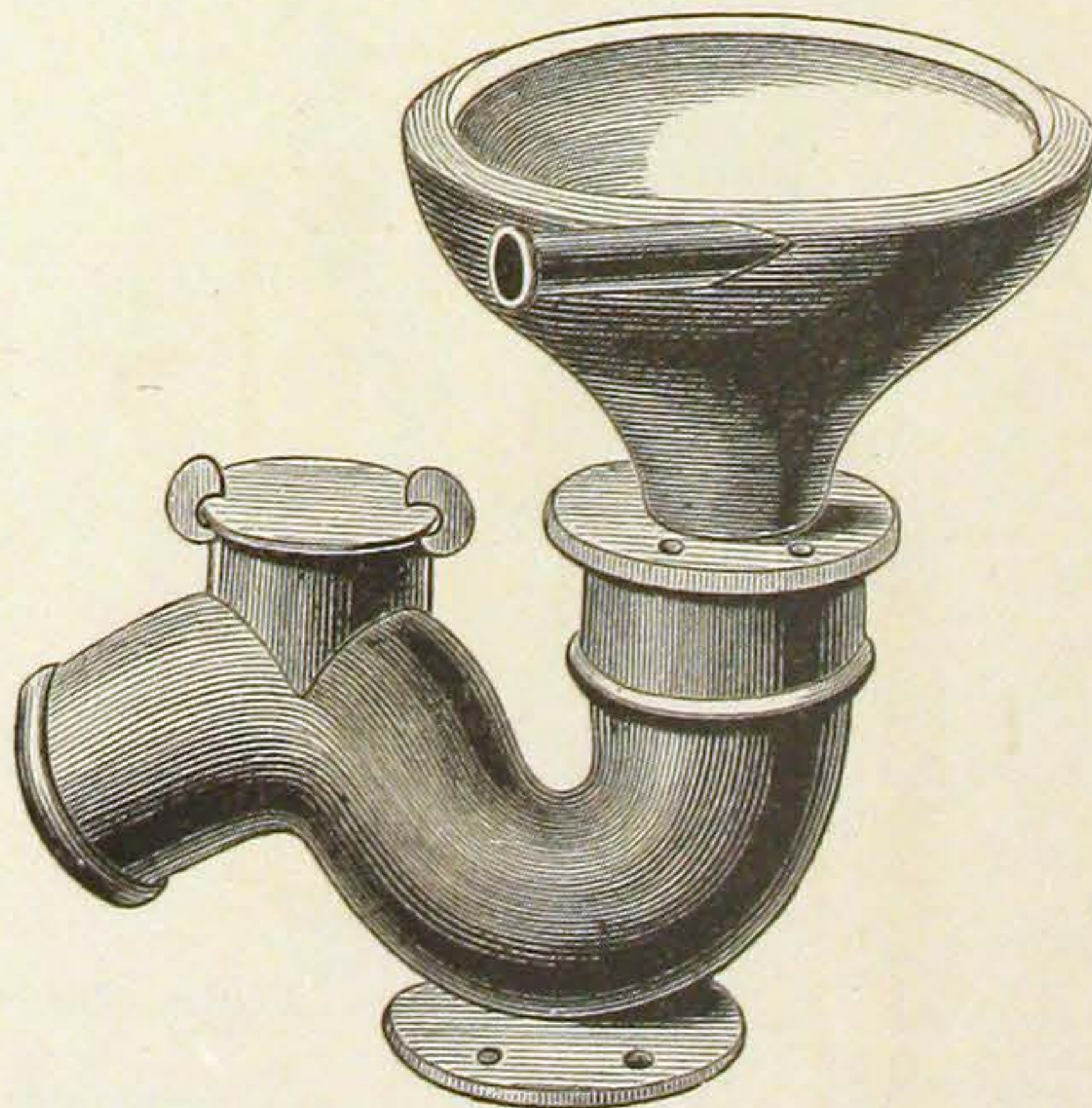


Fig. 945.

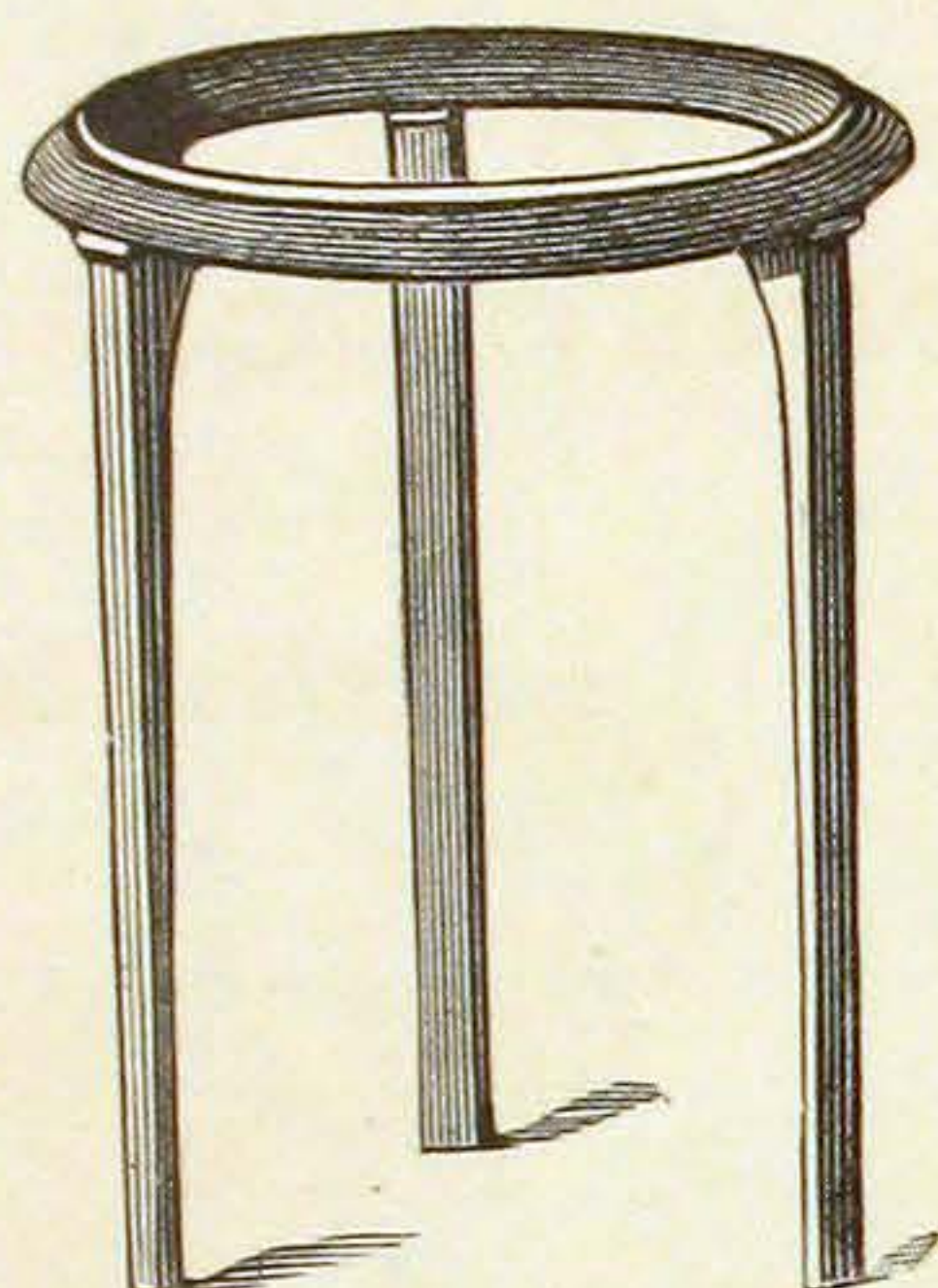


Plain, Painted and Enameled.



## BOILER STAND.

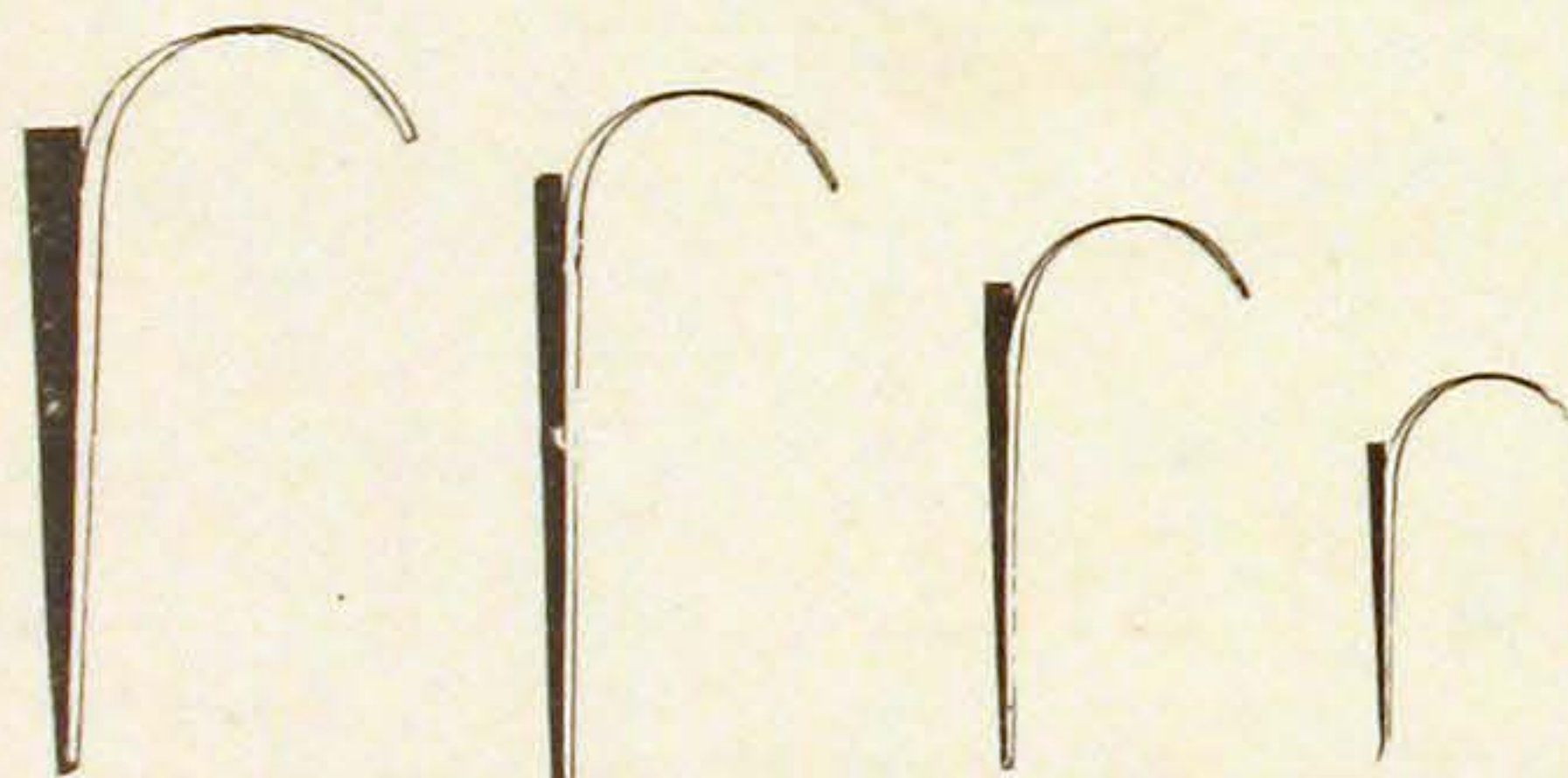
**Fig. 946.**



With Concave Ring.

## HOOKS FOR IRON SOIL PIPE.

**Fig. 948.**



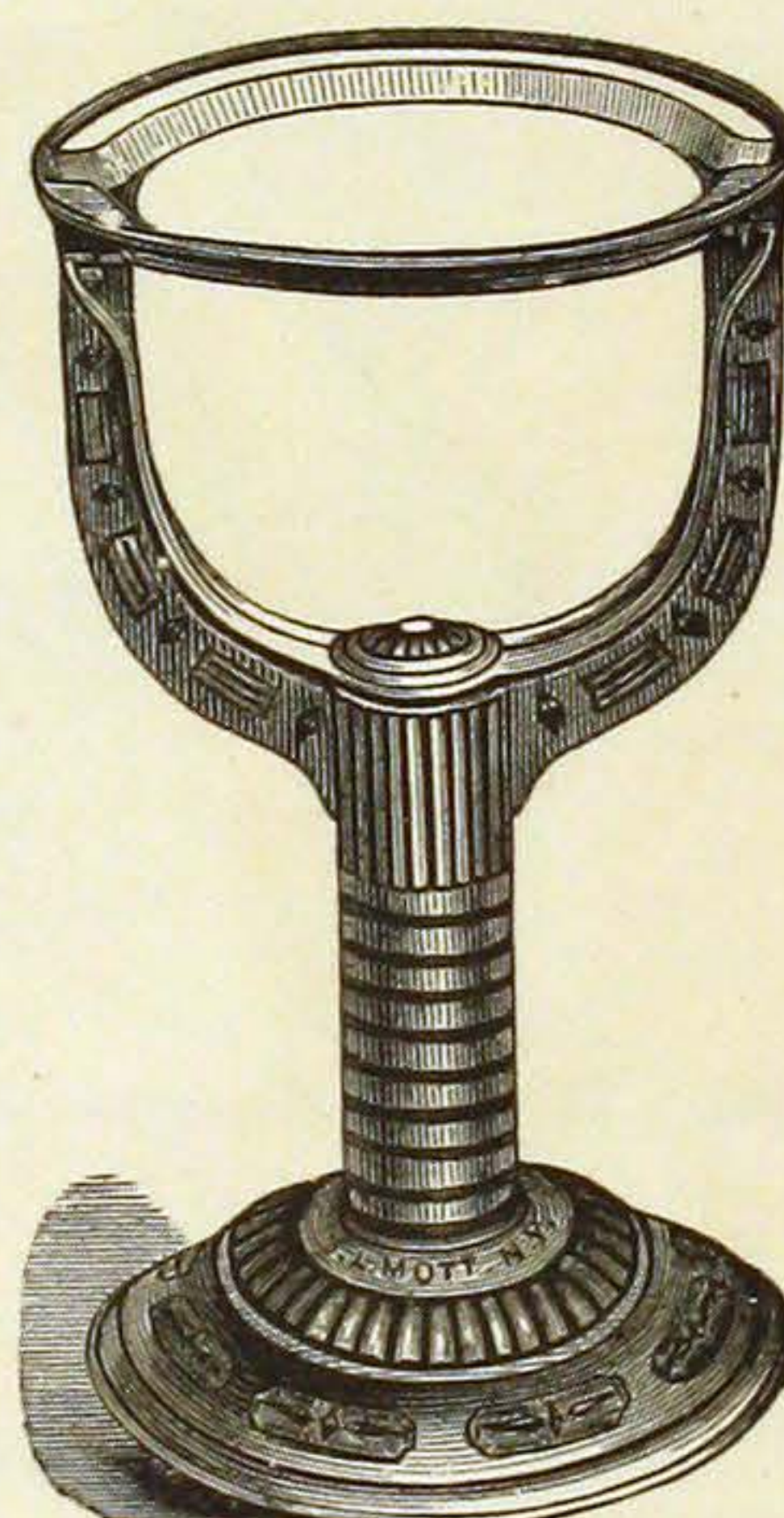
2, 3, 4, 5, 6 and 8 inch.

## LOCKWOOD BOILER STAND.

IMPROVED.

PATENTED 1874.

**Fig. 947.**

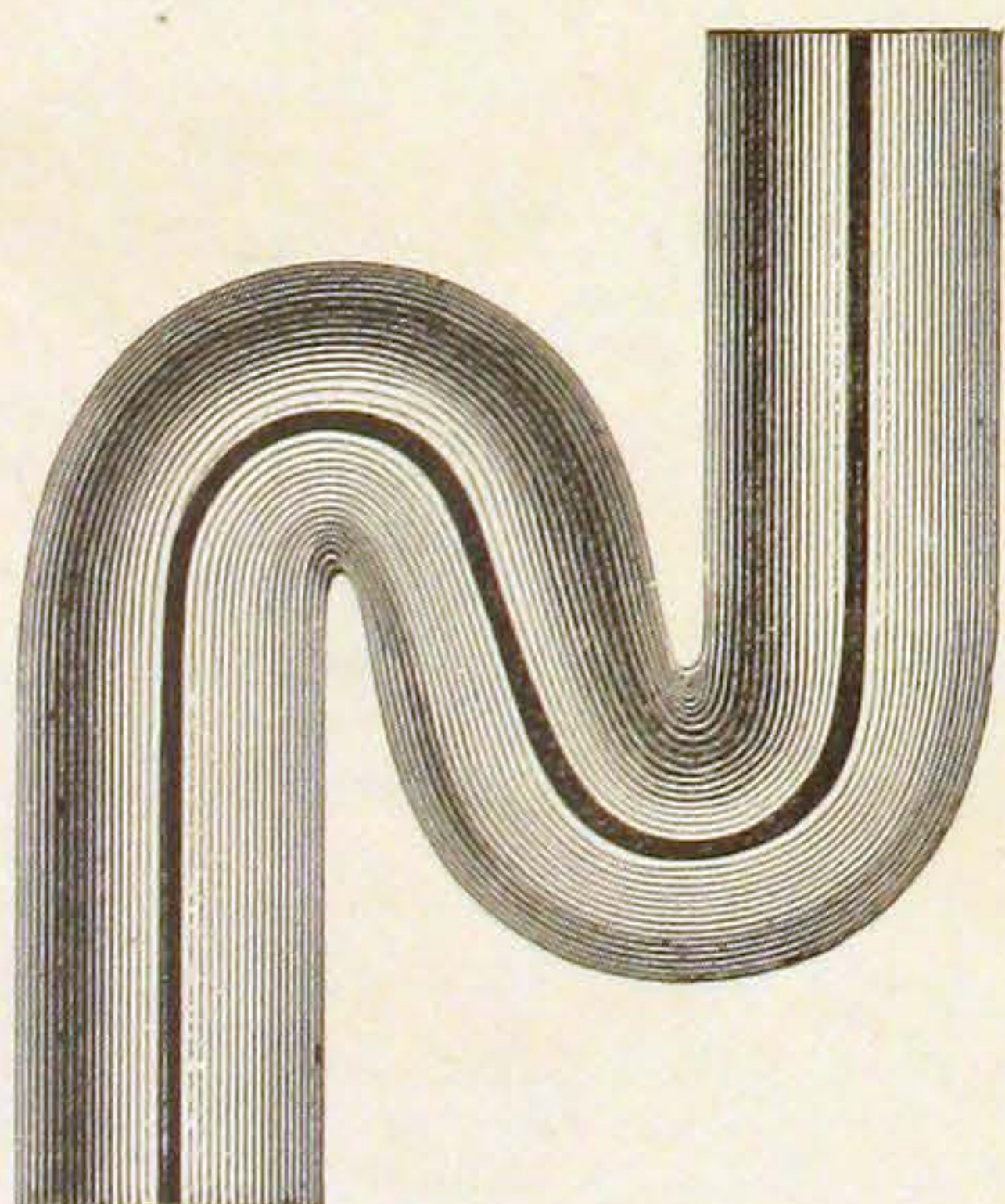


Plain, Bronzed and Galvanized.

This stand can be raised or lowered at pleasure by cutting off the rings on the stand, as shown by the above cut.

## S TRAP MOULD.

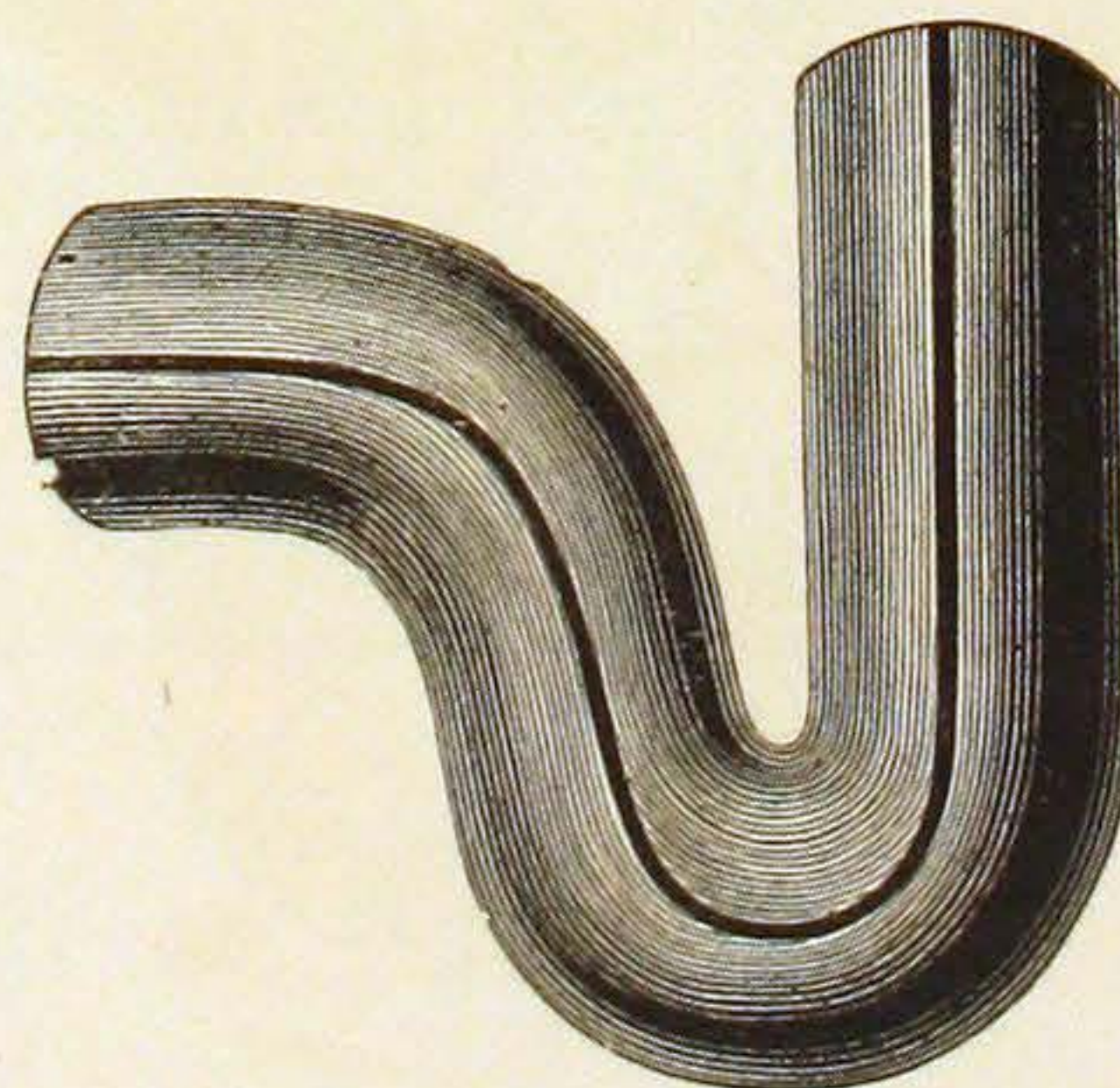
**Fig. 949.**



Sizes, 2 in. and 4 in.

## HALF S TRAP MOULD.

**Fig. 950.**

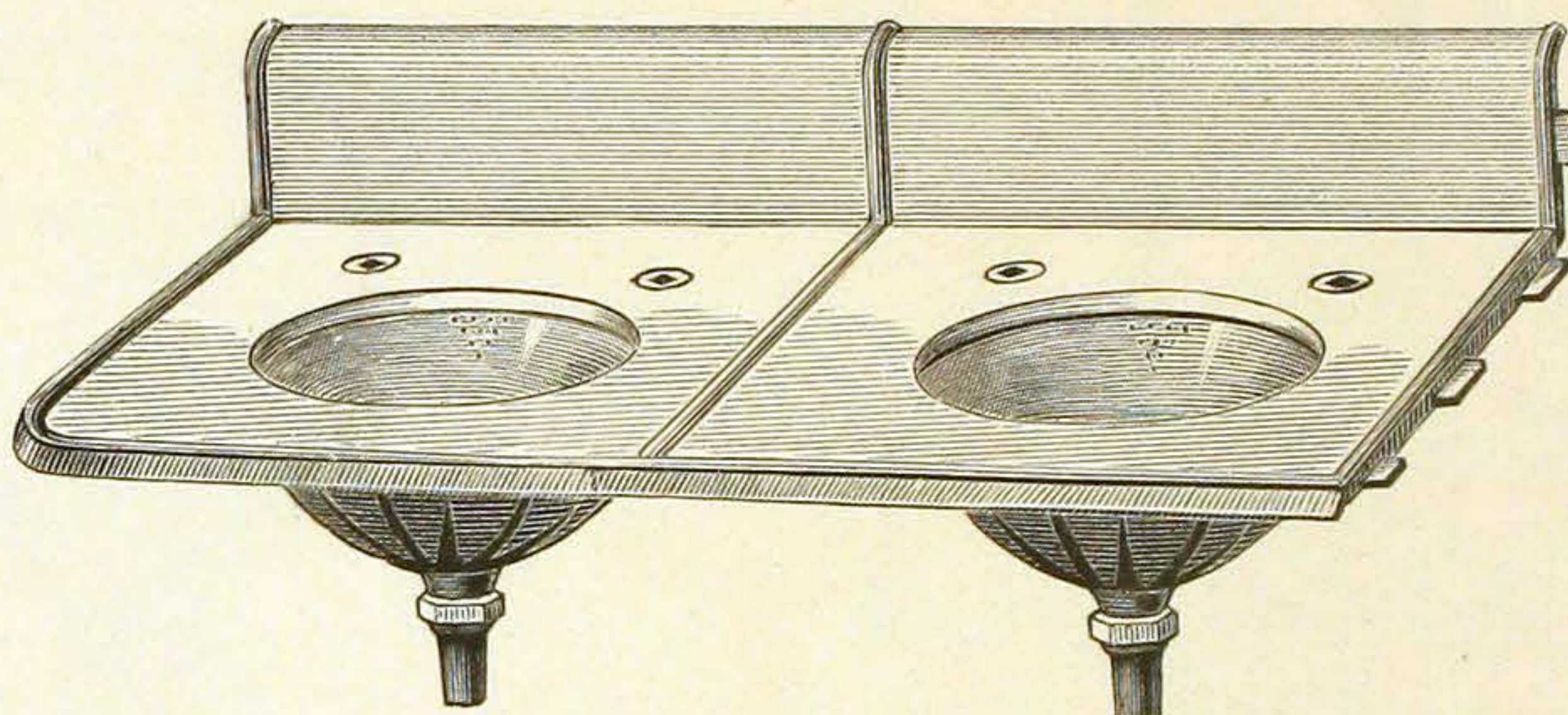


Sizes, 2 in. and 4 in.



## MOTT'S SECTIONAL SLABS AND BOWLS.

Fig. 951.



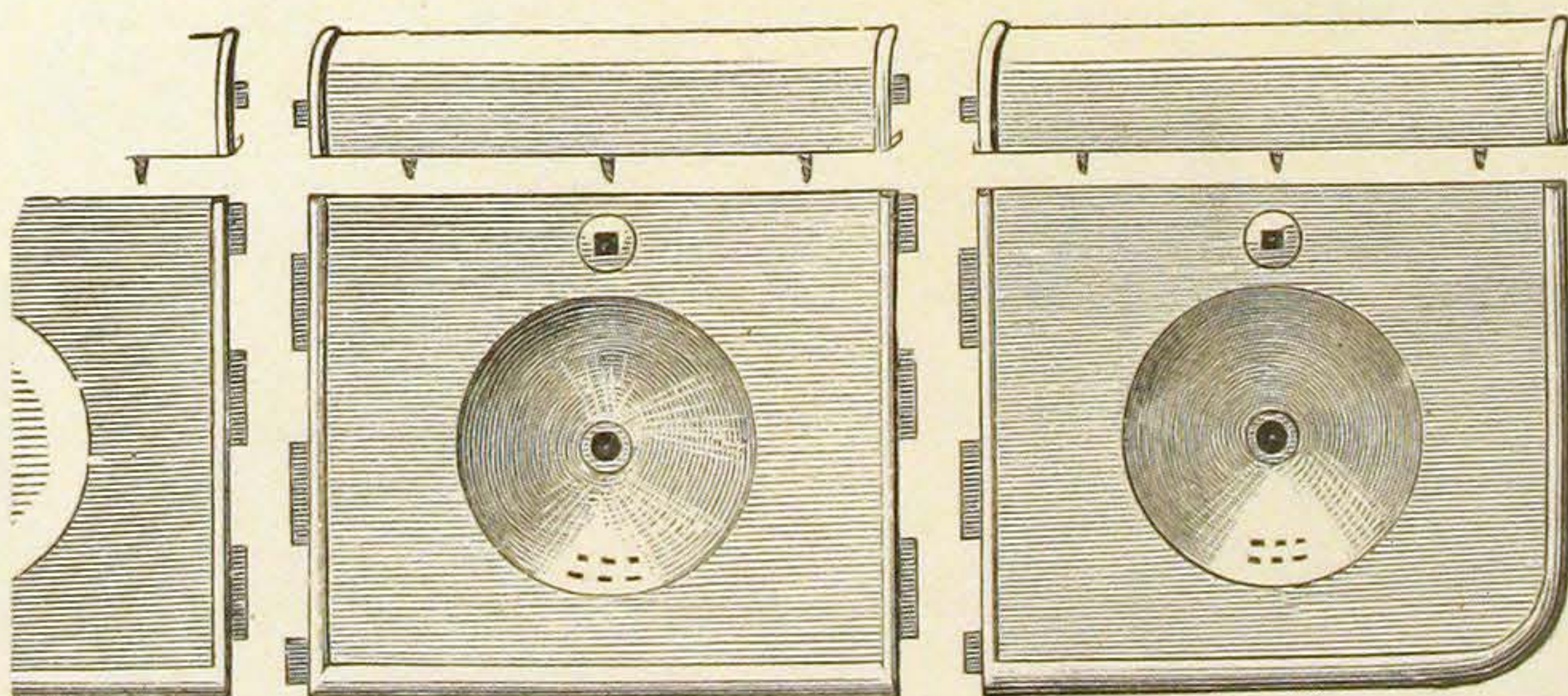
With Patent Overflows and Rubber Plugs. Plain, Galvanized and Enameled.

Can be made any length of which the Slabs will admit.

*Specially adapted for Asylums, Hospitals, &c.*

Length of each Slab, 24 inches; Width of each Slab, 20 inches. Height of Back, 7 inches; Diameter of Bowl, 12 inches.

## SECTIONAL CUT.

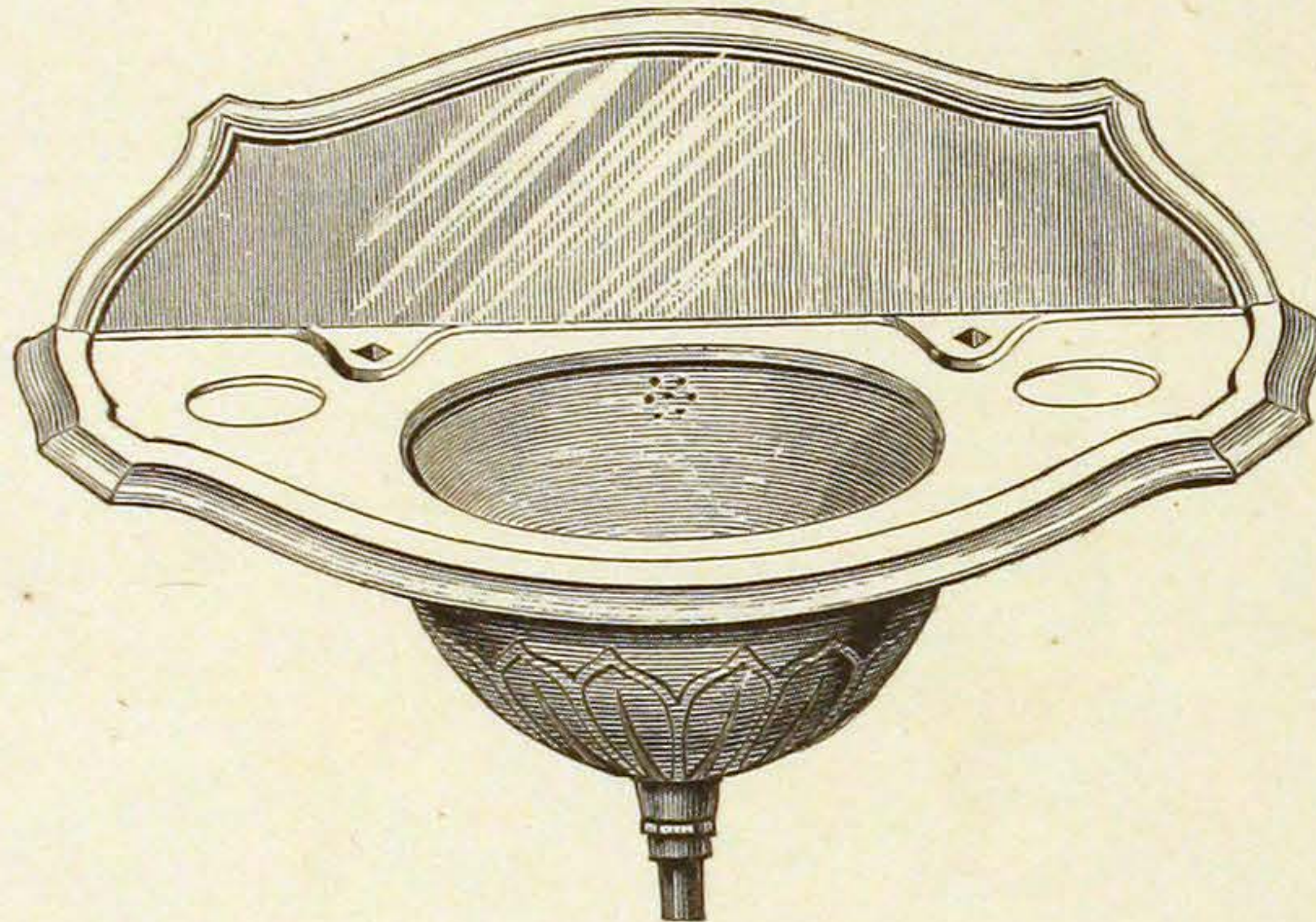


Showing Slabs and Backs of Sectional Wash Stand apart.



## HALF CIRCLE SLAB AND BOWL.

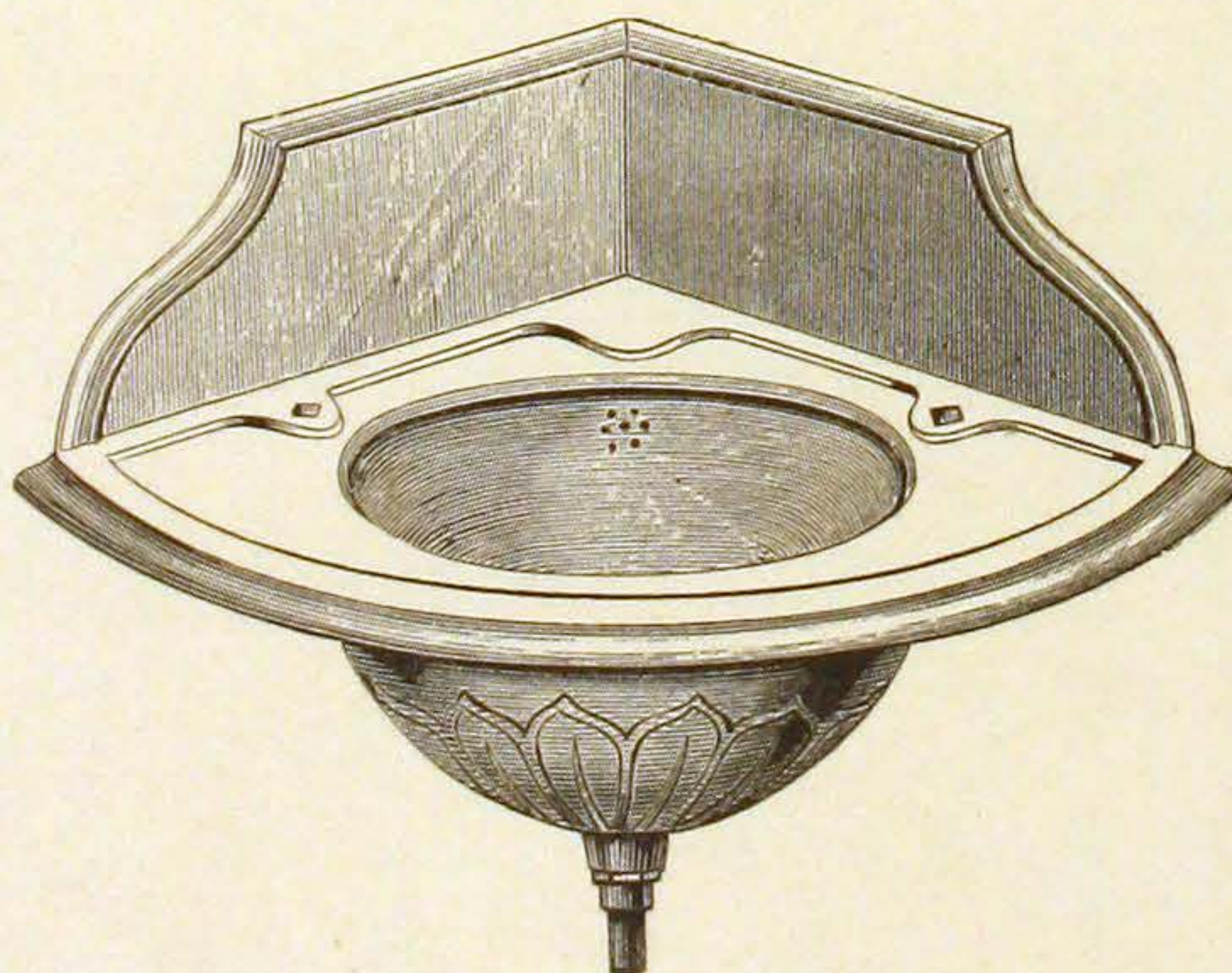
Fig. 952.



With Patent Overflow and Rubber Plug. Plain, Painted, Galvanized and Enameled.

## CORNER SLAB AND BOWL.

Fig. 953.



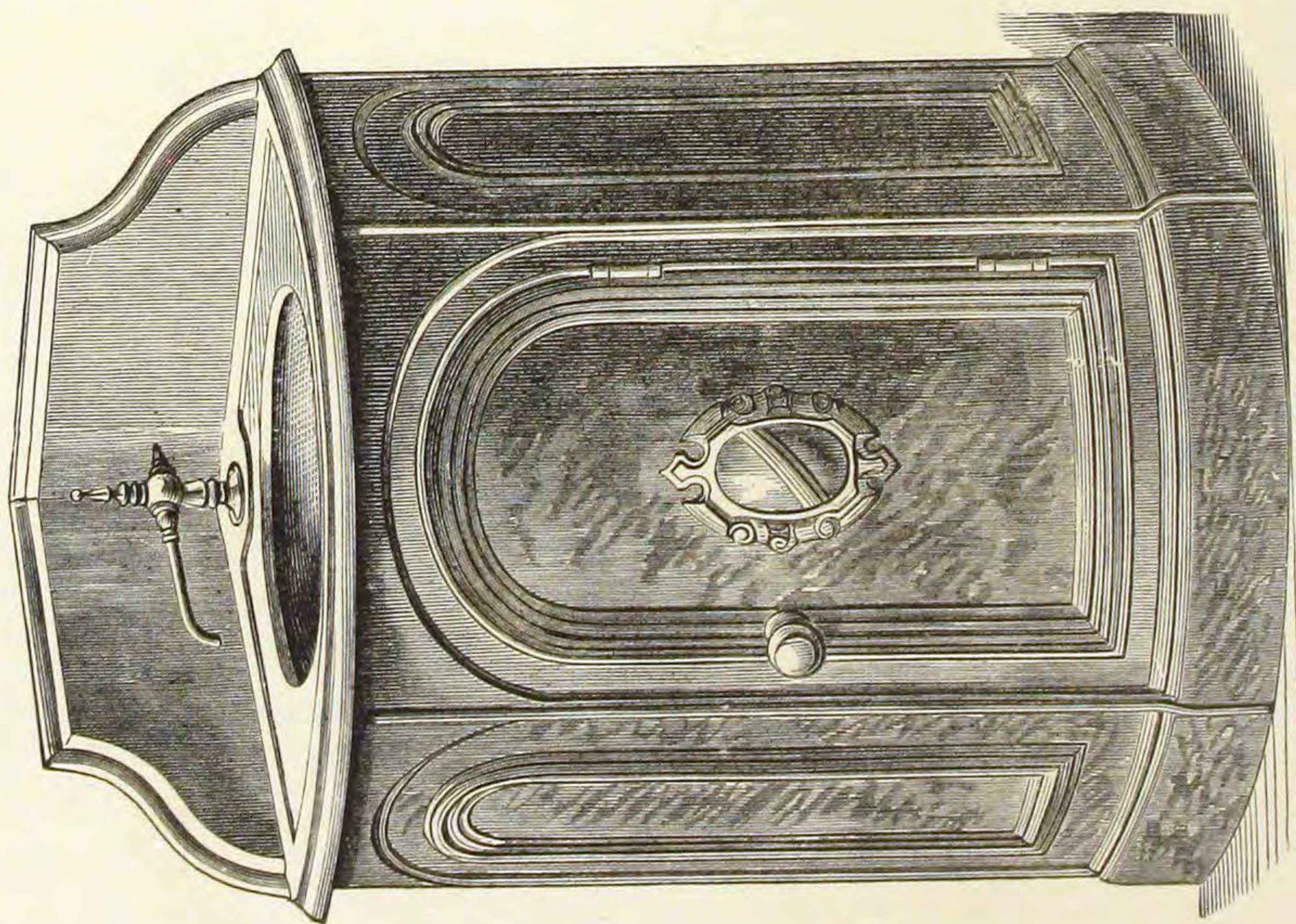
With Patent Overflow and Rubber Plug. Plain, Painted, Galvanized and Enameled.

Where wood casing is required, this Slab and Bowl is used in preference to Marble, being very easily set up, and at about half the cost.

When ordering either of above Slabs, be particular to state whether one or two Faucet Holes are required.



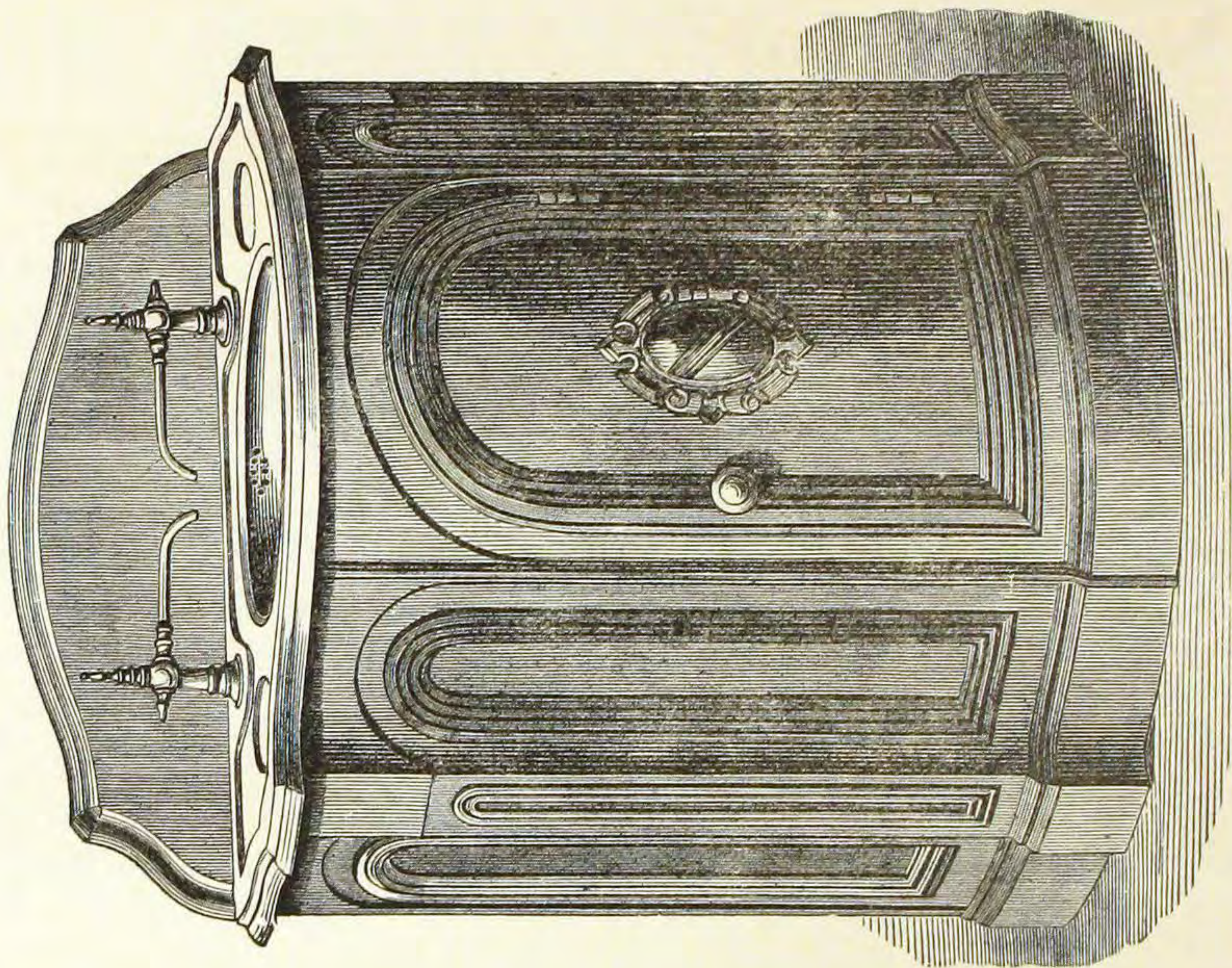
MOTT'S PATENT WASH STANDS.  
CORNER.  
Fig. 954.



With Patent Overflow and Rubber Plug. Plain, Painted, Galvanized, Enameled with Plain Frames, Enameled with Marbleized Frames.  
Height to Slab, 28 in.; to top of Back, 34 in. Width of Front, 26 in.  
Length of Side, 18 in. Diameter of Bowl, 12 in.

When ordering, be particular to state whether one or two Faucet holes are required.

Fig. 955.



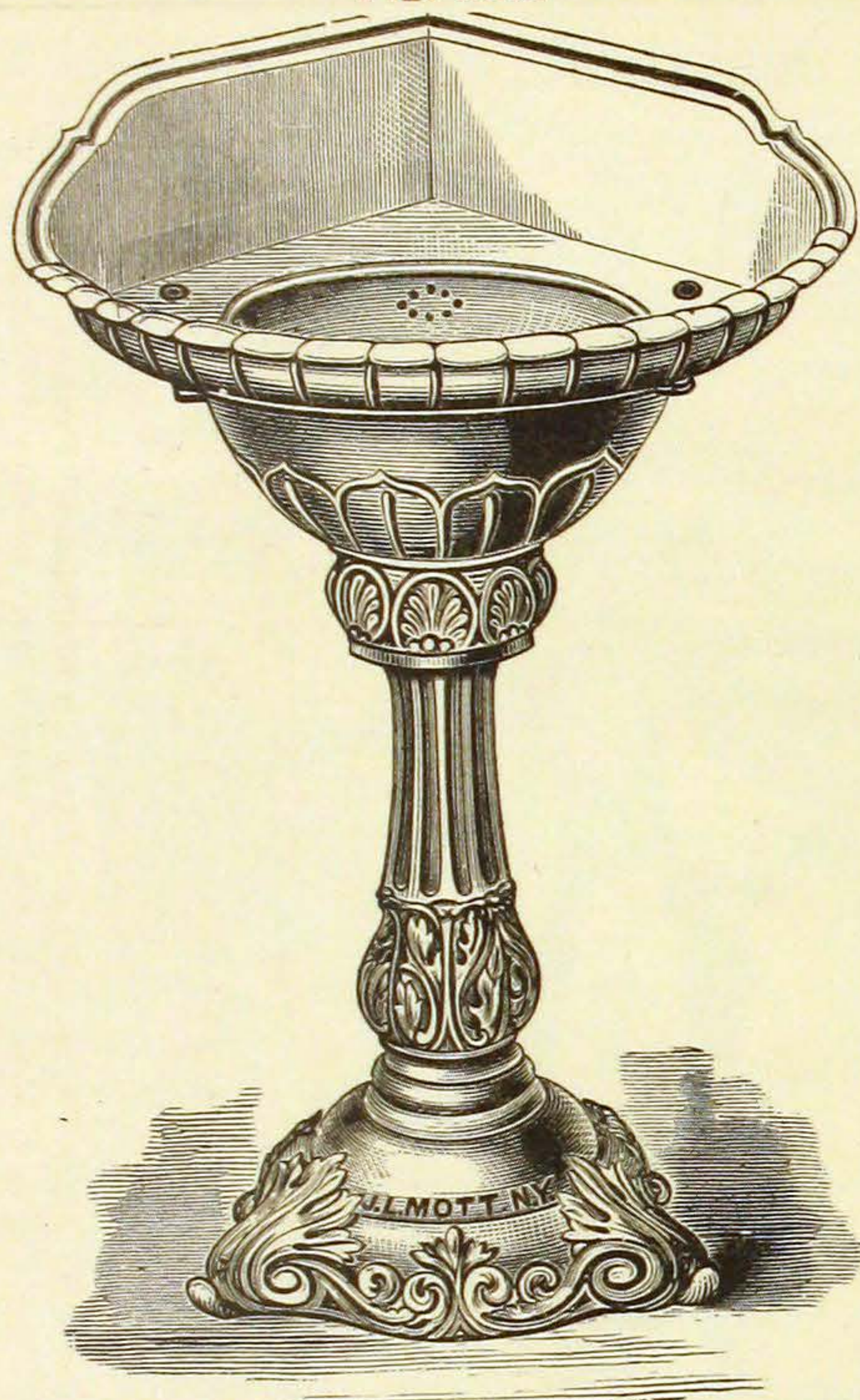
Height to Slab, 28 in.; to top of Back, 35 in. Length of Back, 30 in. Diameter of Bowl, 12 in.



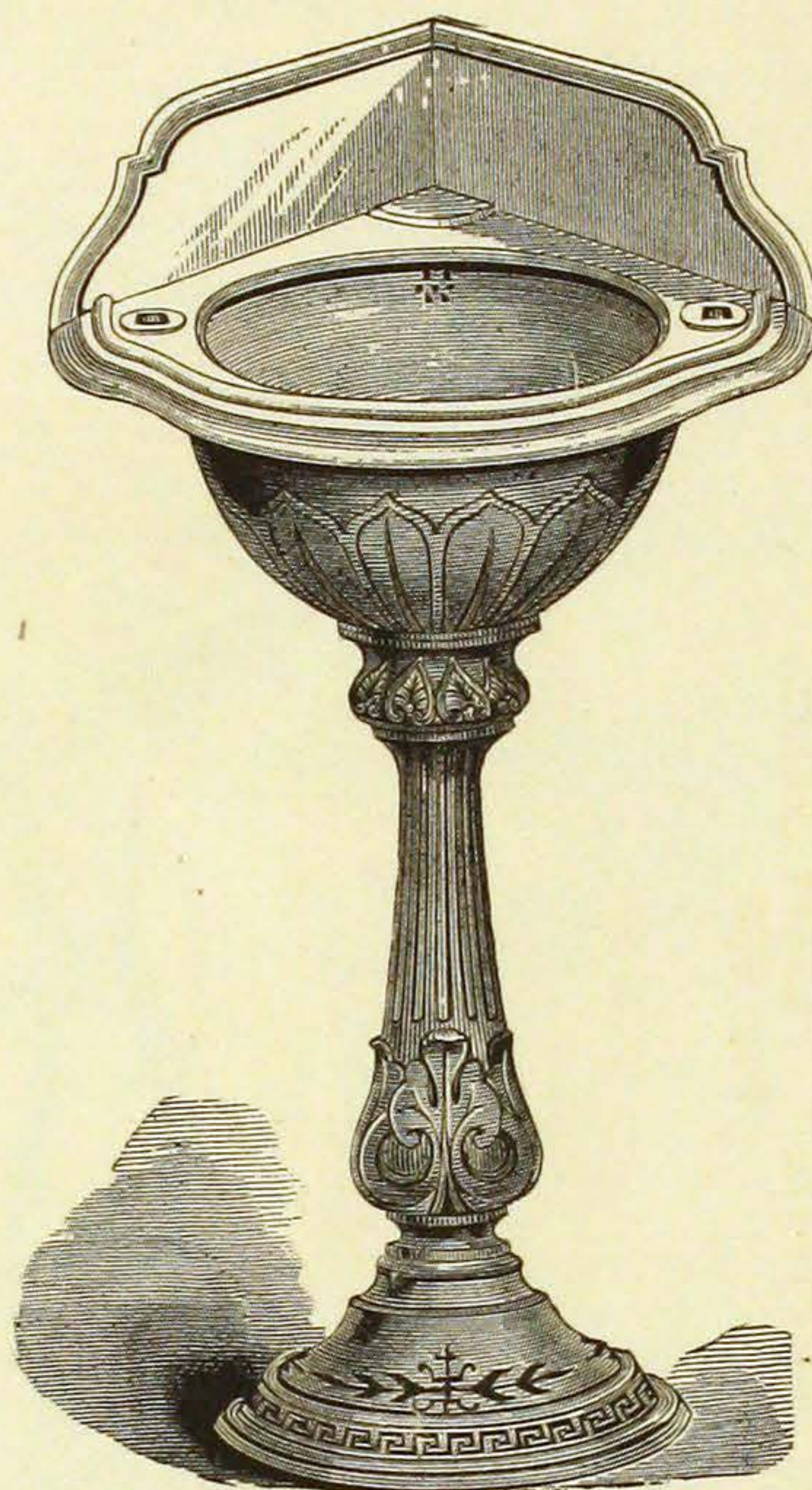
# WASH STANDS, ON STANDARDS. CORNER.

265

**Fig. 956.**



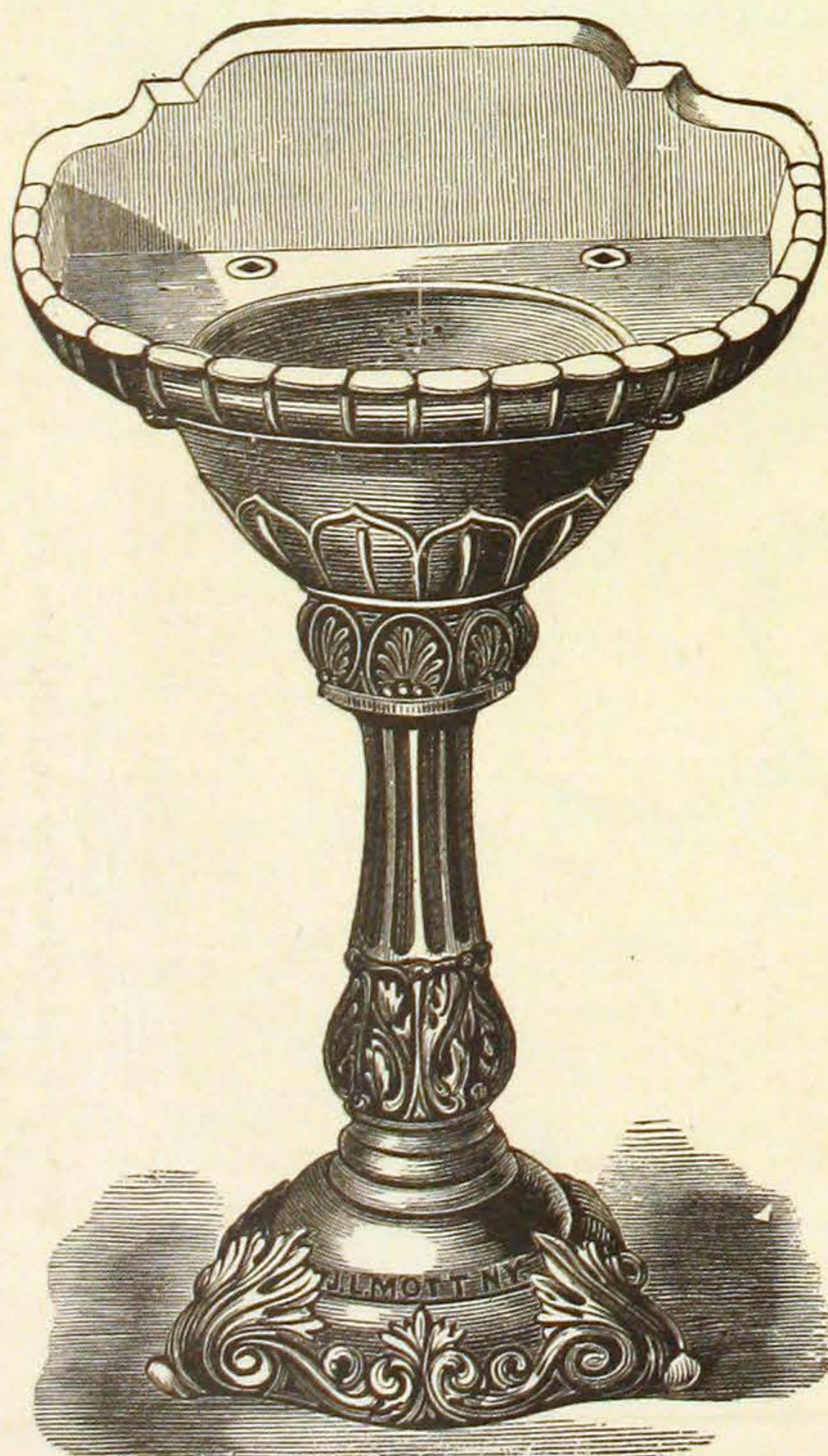
**Fig. 956½.**



Height to Front of Slab,  $26\frac{1}{2}$  in. ; to Top of Back, 33 in.  
Length on Side, 18 in. Diam. of Bowl, 12 in.

**Fig. 957. HALF CIRCLE.**

**Fig. 957½.**

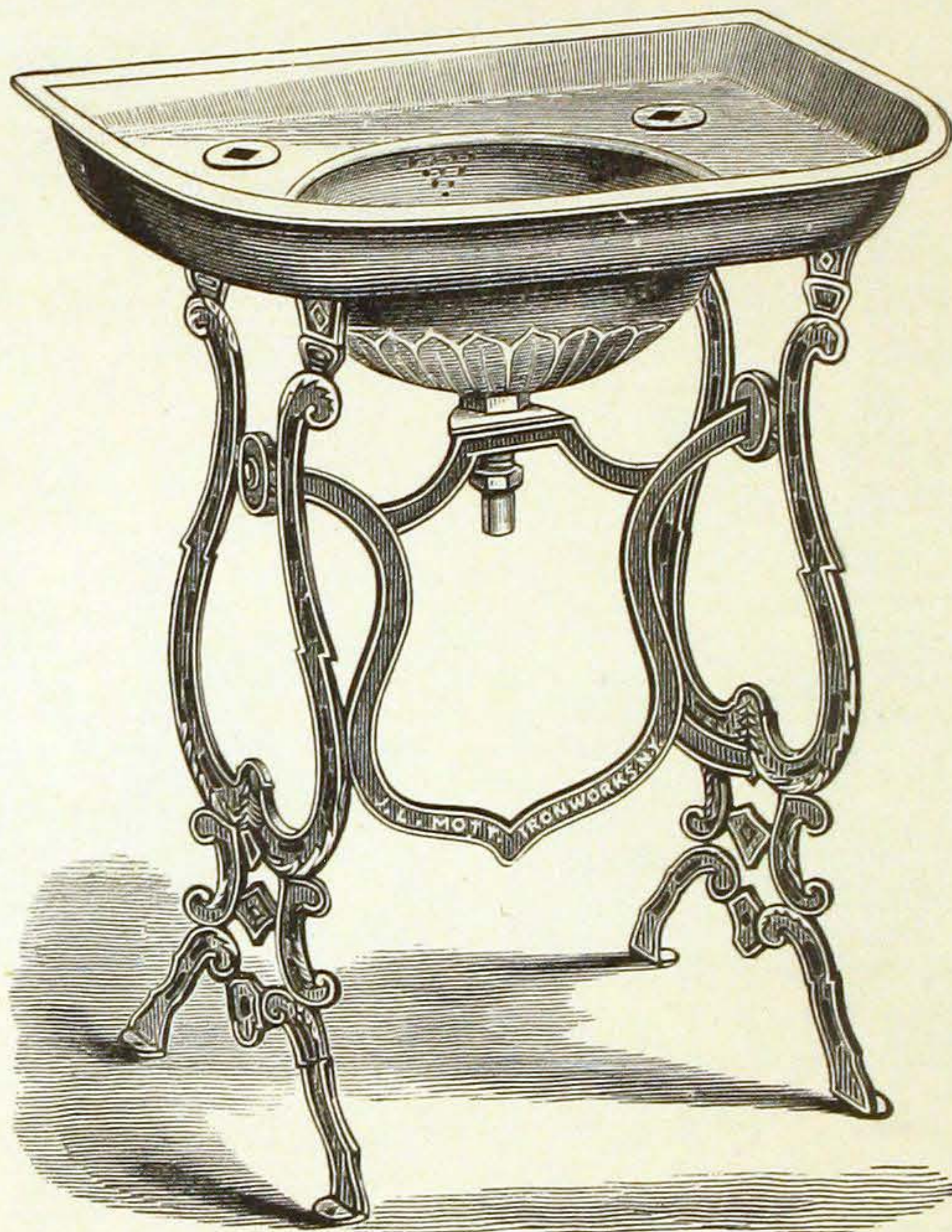


Height to Front of Slab,  $20\frac{1}{2}$  in. ; to Top of Back, 34 in.  
Length of Back, 30 in. Diam. of Bowl, 12 in.

Plain, Painted, Galvanized and Enameled.

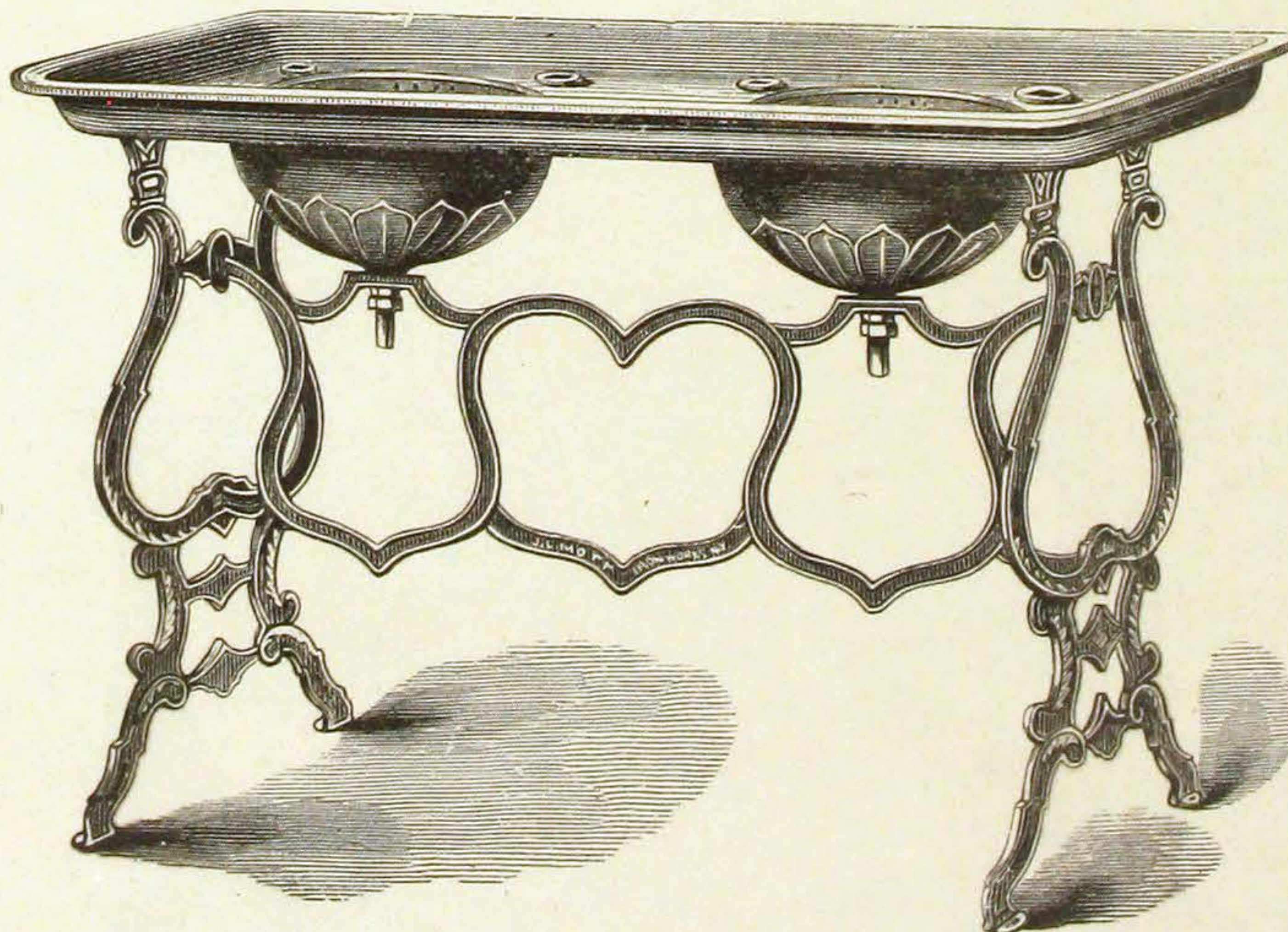


**PORTABLE WASH STANDS.**  
**New Pattern with Overflow, on Frame.**  
**Fig. 958.**



Height,  $31\frac{1}{4}$  inch. Length on back,  $24\frac{1}{4}$  inch. Width,  $19\frac{1}{4}$  inch. Diameter of Bowl, 13 inch.

**Fig. 959.**



**Double with Overflow.**

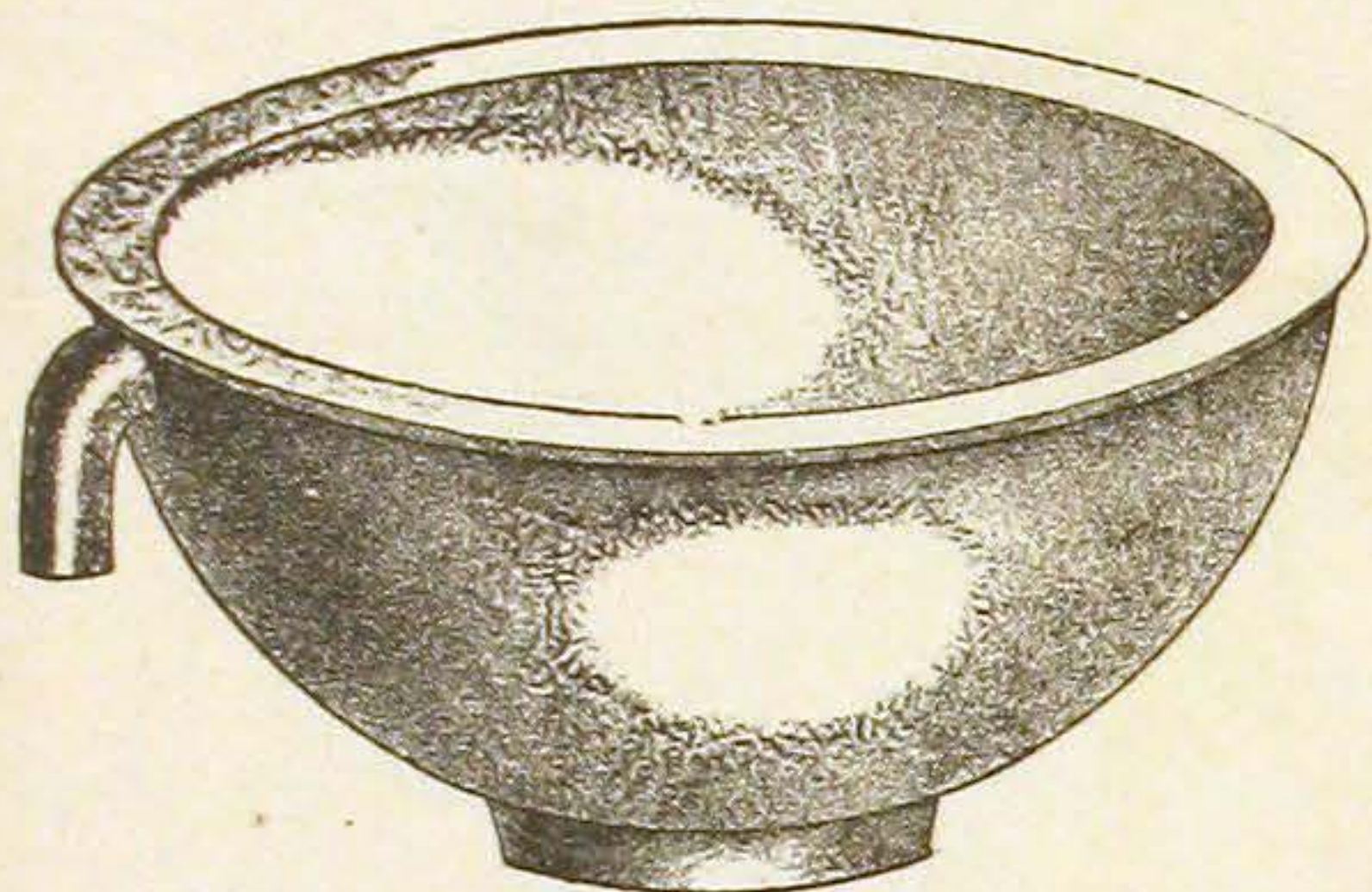
Height,  $31\frac{1}{4}$  inch. Length on back, 46 inch. Width,  $19\frac{1}{4}$  inch. Diameter of Bowl, 13 inch.  
**Plain, Painted, Galvanized and Enameled.**



## WASH BASINS. EARTHENWARE.

Common Overflow.

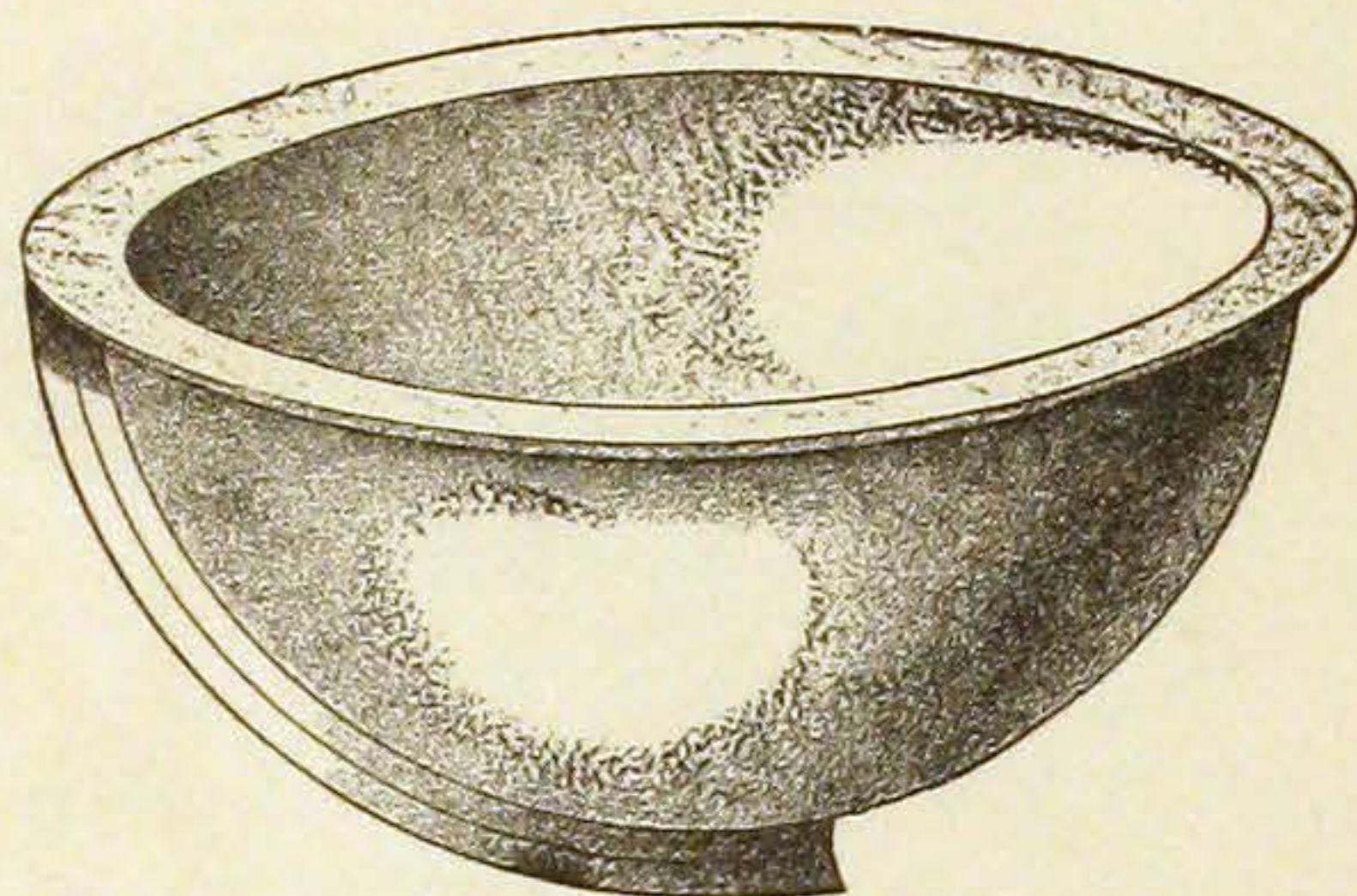
**Fig. 960.**



All sizes from 9 to 20 inches outside measure, with or without overflow.

Patent Overflow.

**Fig. 961.**

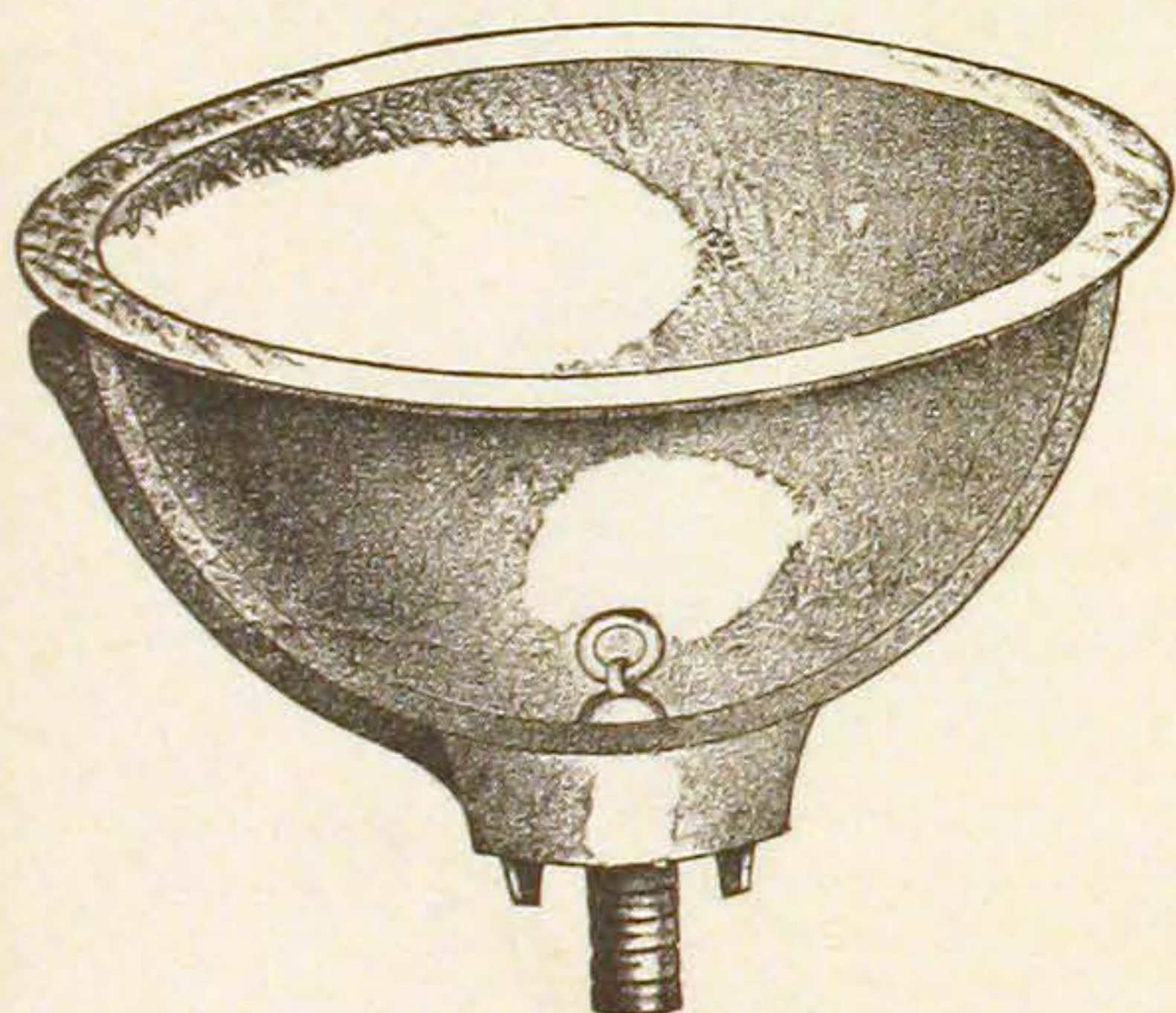


All sizes from 12 to 16 inches outside measure.

## MARBLED AND WHITE.

Patent Overflow and Rubber Plug, Combined.

**Fig. 962.**

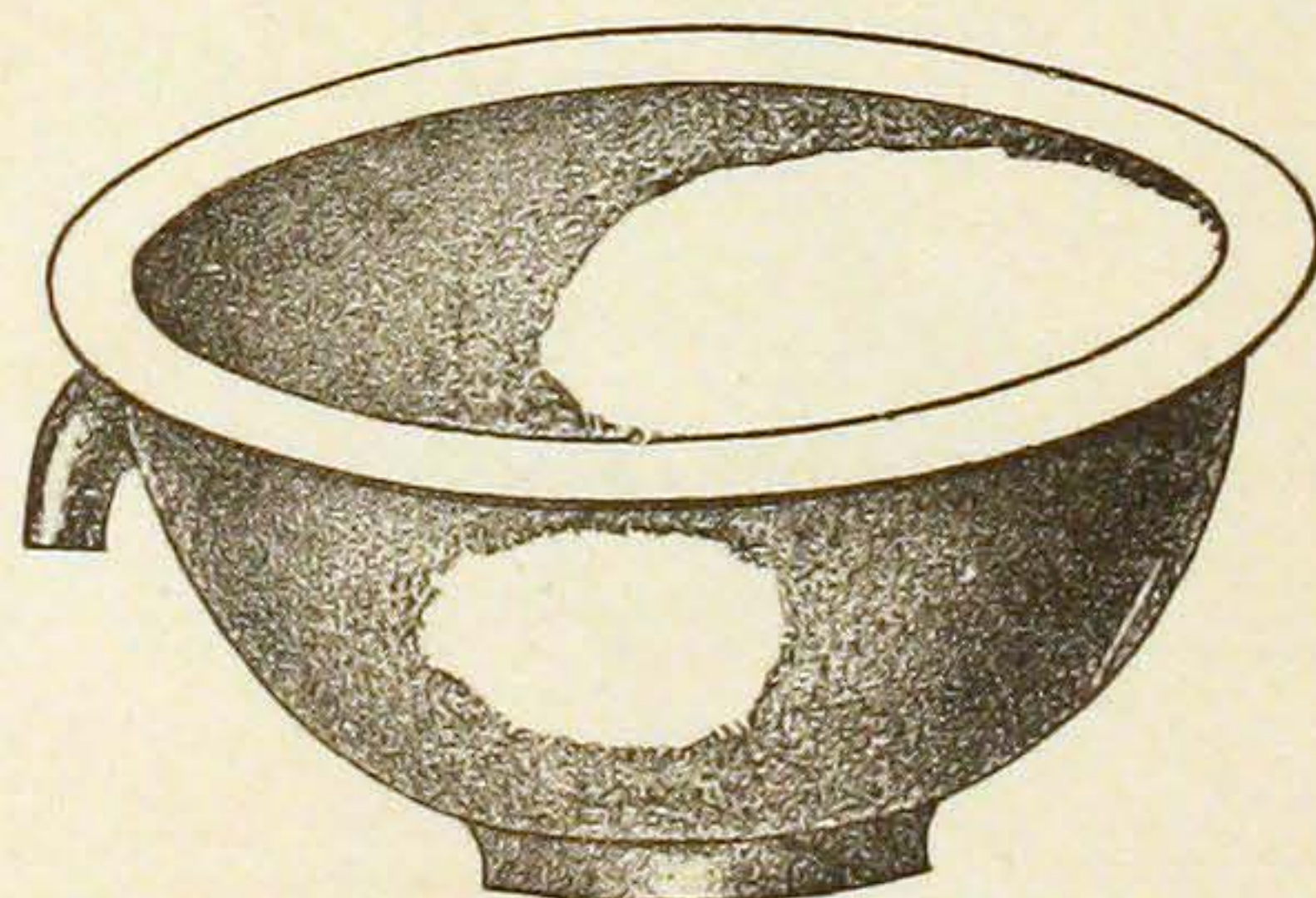


**Marbled.**

All sizes from 12 to 16 inches outside measure.

White Basin.

**Fig. 963.**

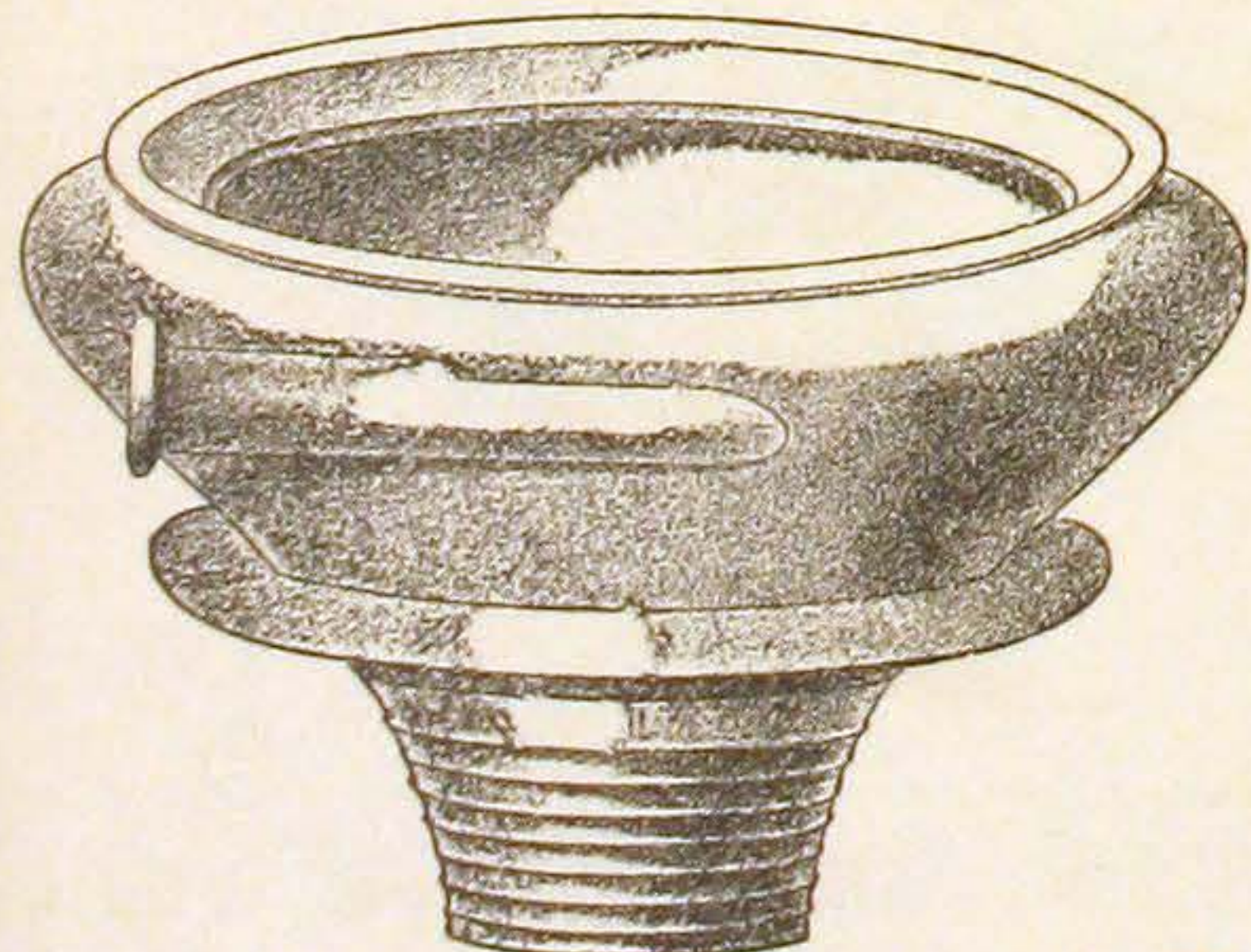


**White.**

All sizes from 12 to 16 inches outside measure, with or without overflow.

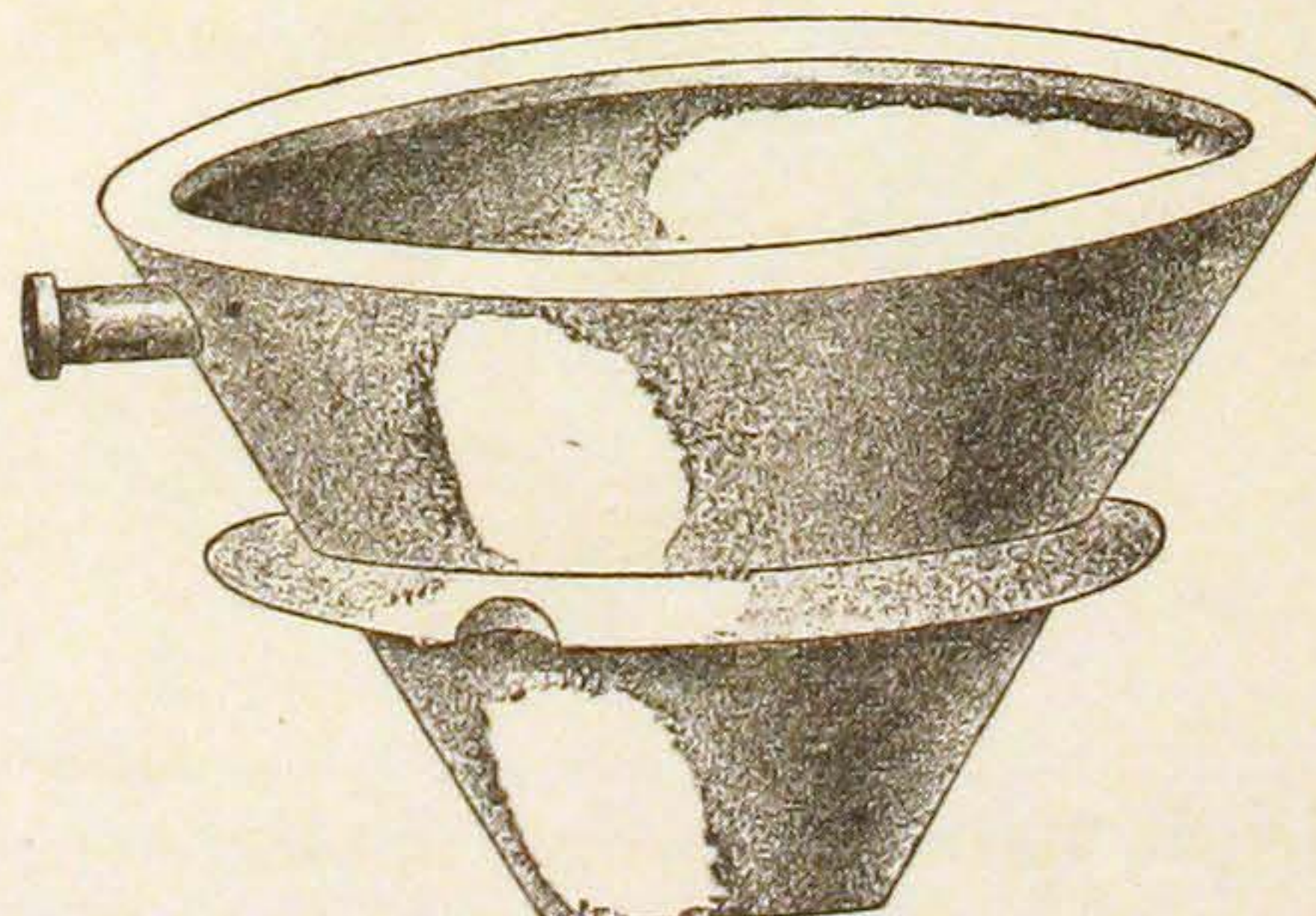
## CLOSET BASINS. FRENCH PATTERN.

**Fig. 964.**



## BASINS. OVAL PATTERN.

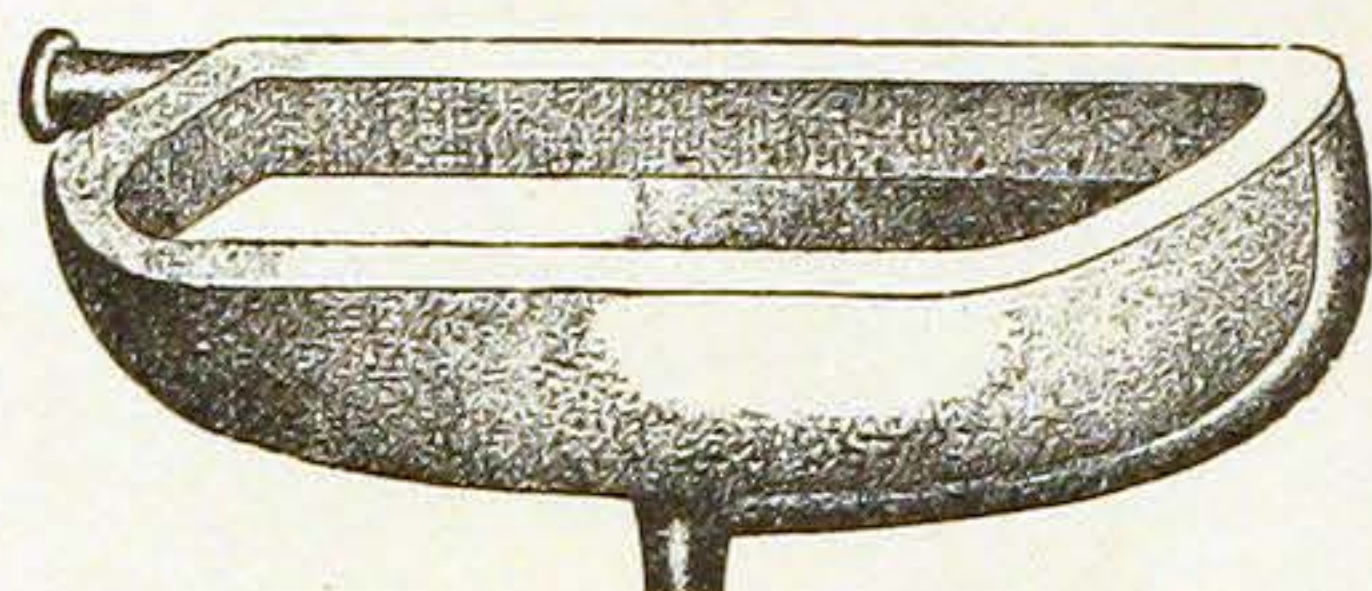
**Fig. 965.**



White, Marbled and Blue.

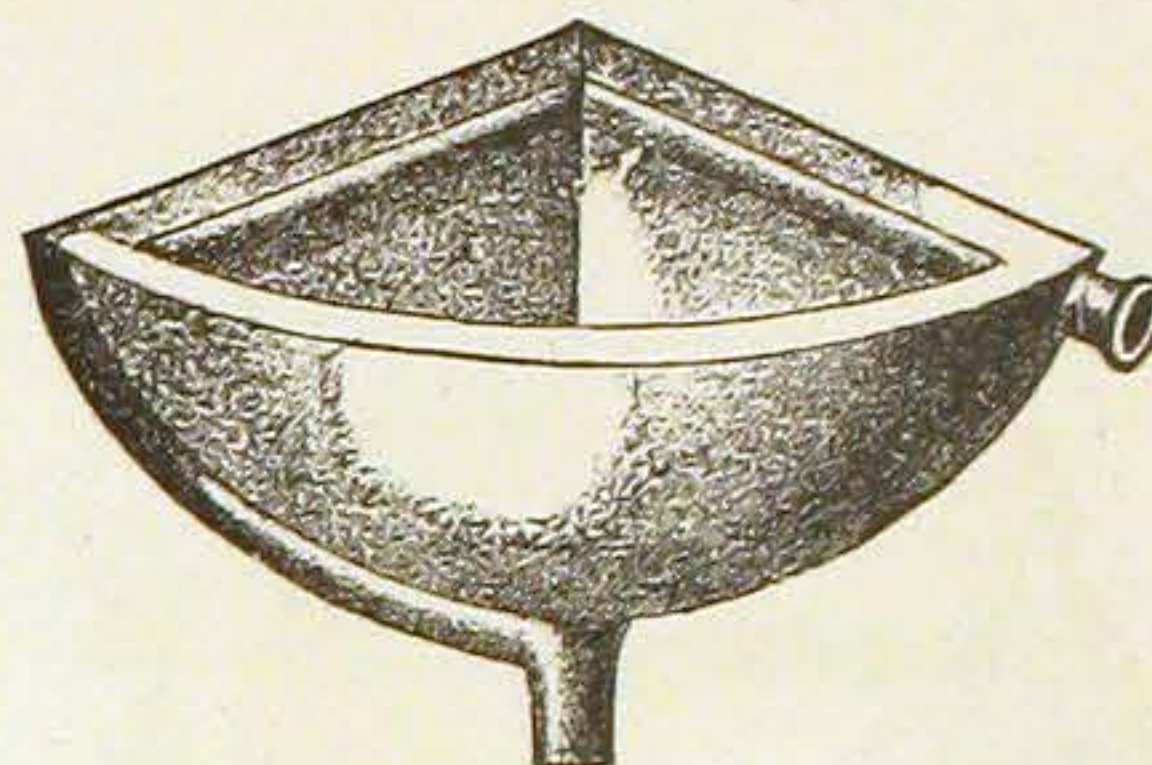


## URINALS.

**Fig. 966.****No. 1.**

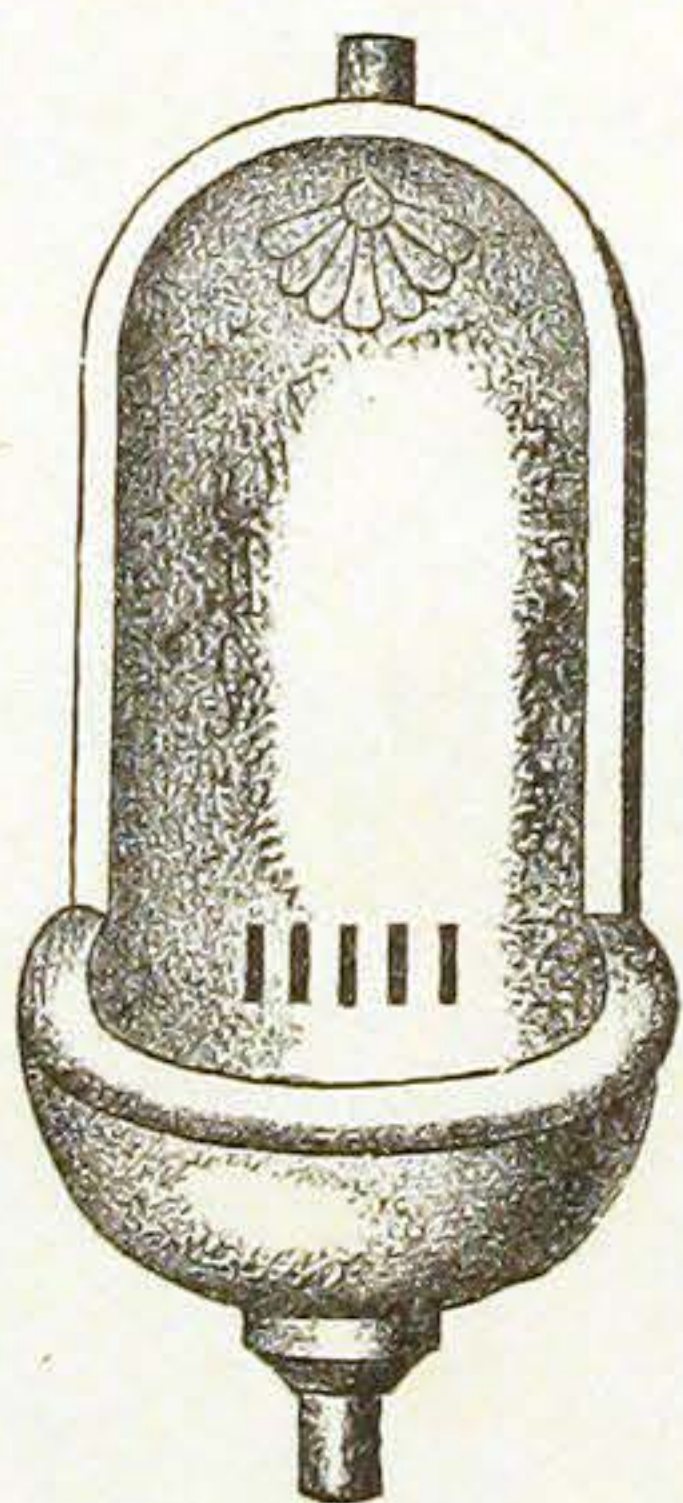
Oblong, Pierced Pipe and Strainer, Patent Overflow.

Large size, 10 x 18 in. Small size 9 x 15.

**Fig. 967.****No. 2.**

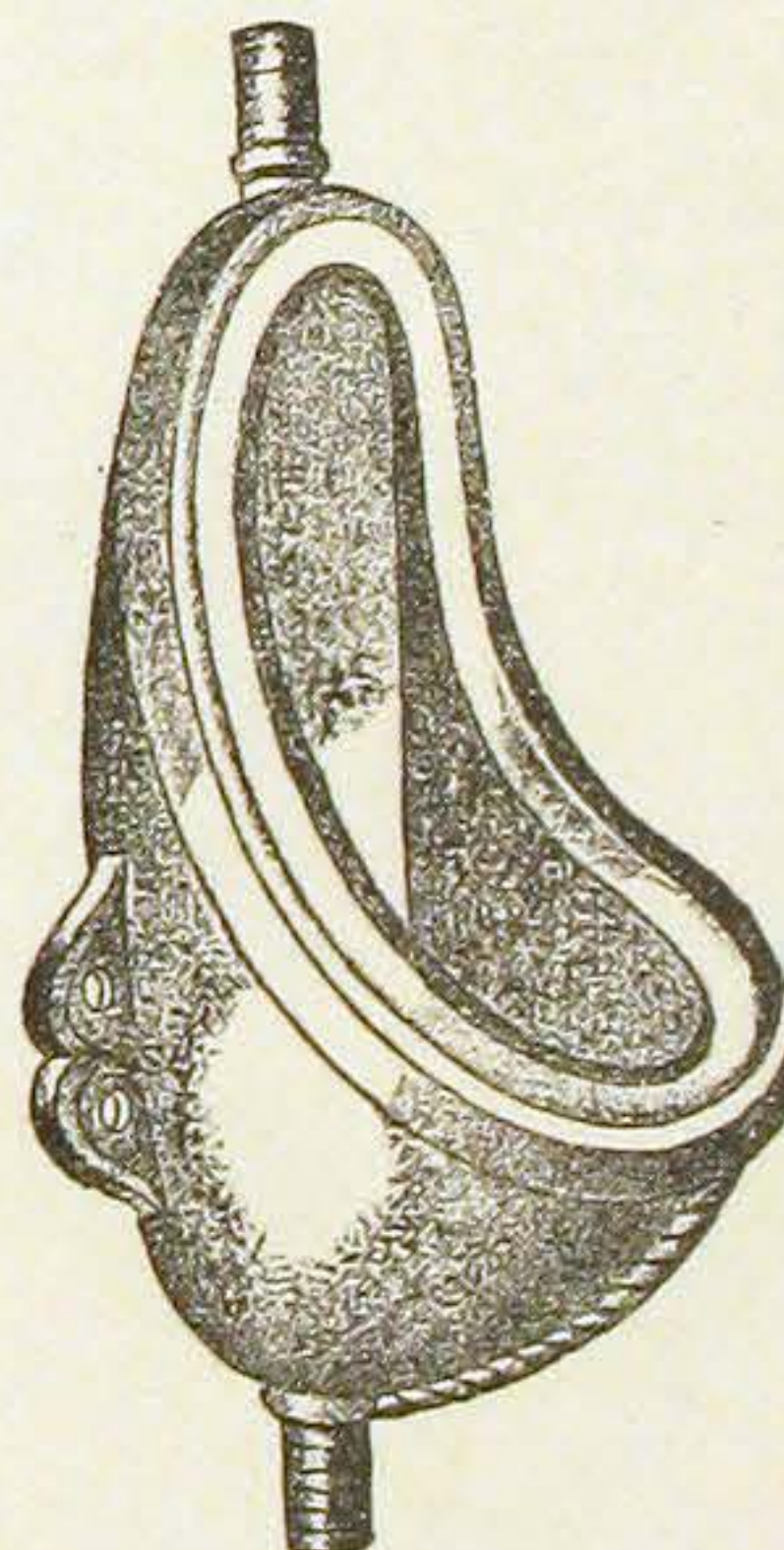
Corner, Pierced Pipe and Strainer, Patent Overflow.

Large size, 12 in. Small size 10 in.

**Fig. 968.****No. 3.**

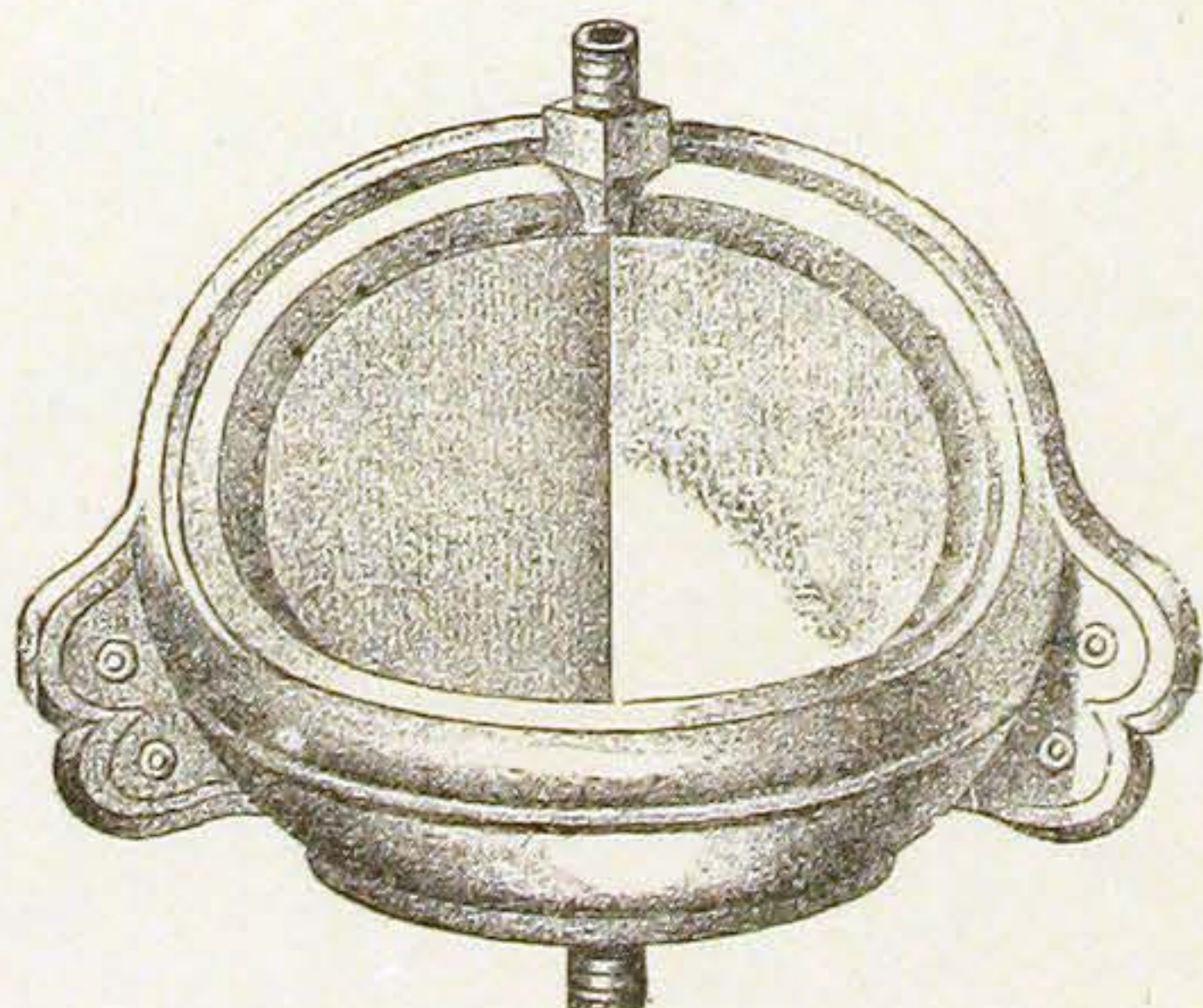
Cradle for Recess.

Large size, 14 x 22 in. Small size, 12 x 19 in.

**Fig. 969.****No. 4.**

Bedfordshire, Flat Back, Patent Overflow.

Large size, 15½ x 18½ in. Small size, 12½ x 16½ in.

**Fig. 970.****No. 6.**

Bedfordshire, for Corner, Patent Overflow.

Large size, 12½ x 16½ in. Small size 10 x 14 in.

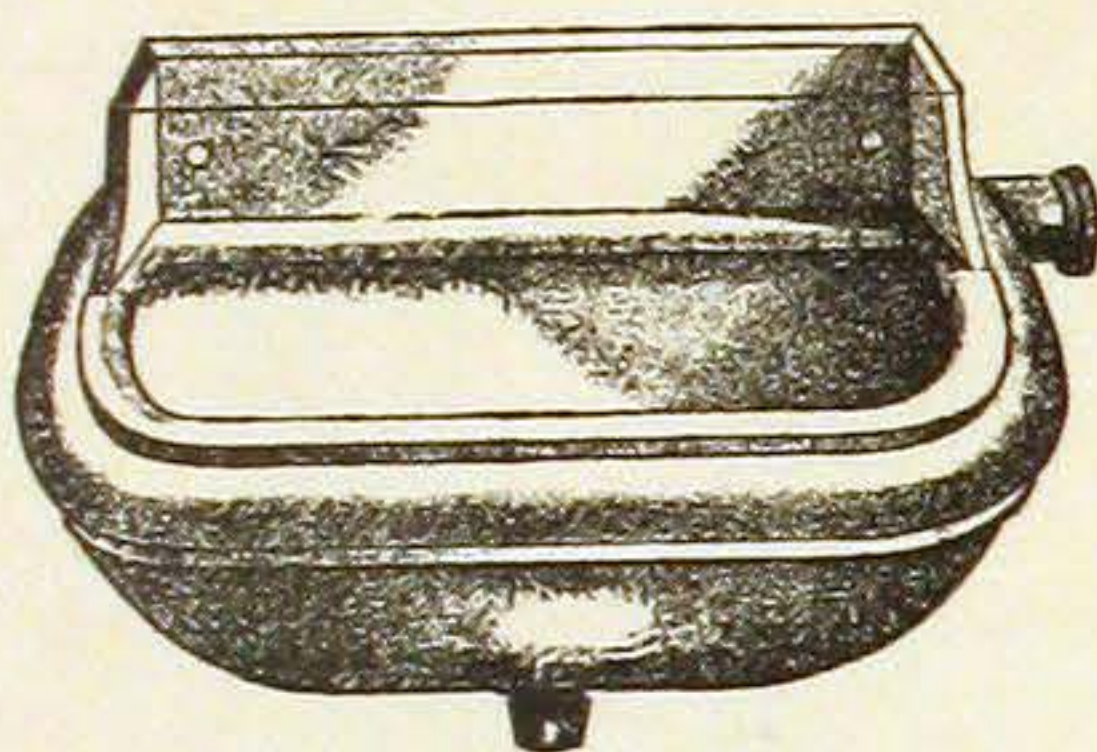
**Fig. 971.****No. 5.**

Round, Pierced Pipe and Strainer.



## URINALS.

**Fig. 972.**

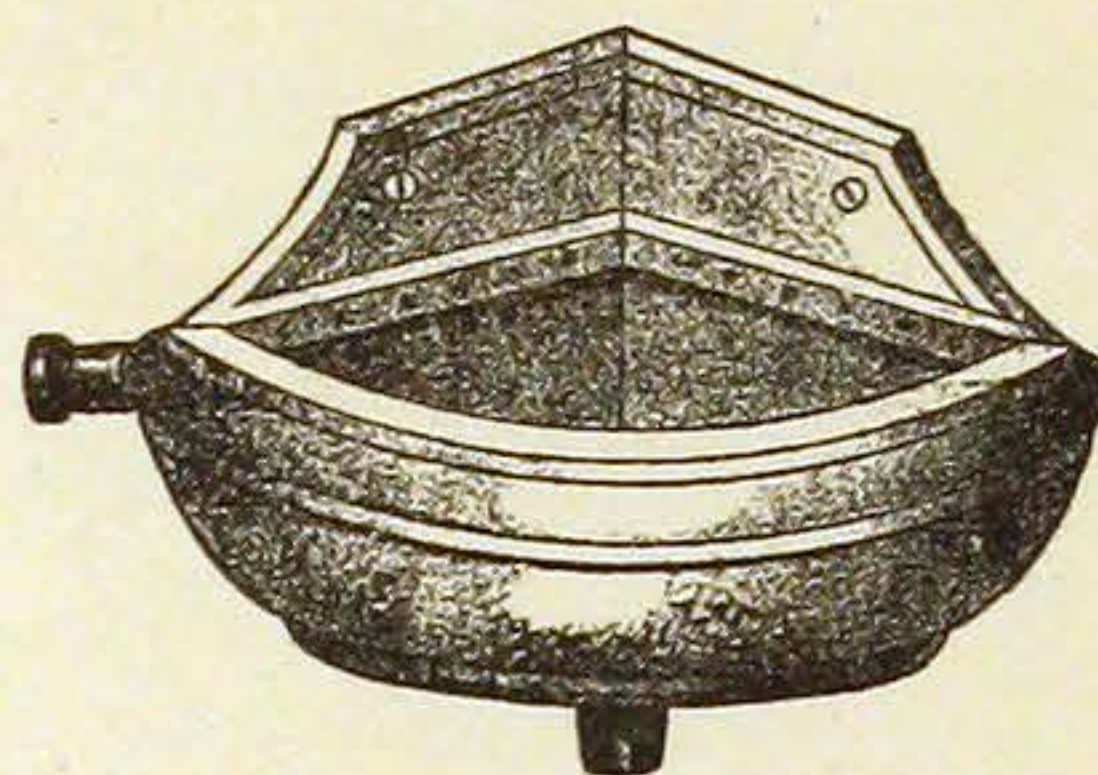


No. 7.

Patent Overflow.

Oblong, Pierced Pipe and Strainer.  
Large Size, 9 x 15 in. Small Size, 8 x 12 in.

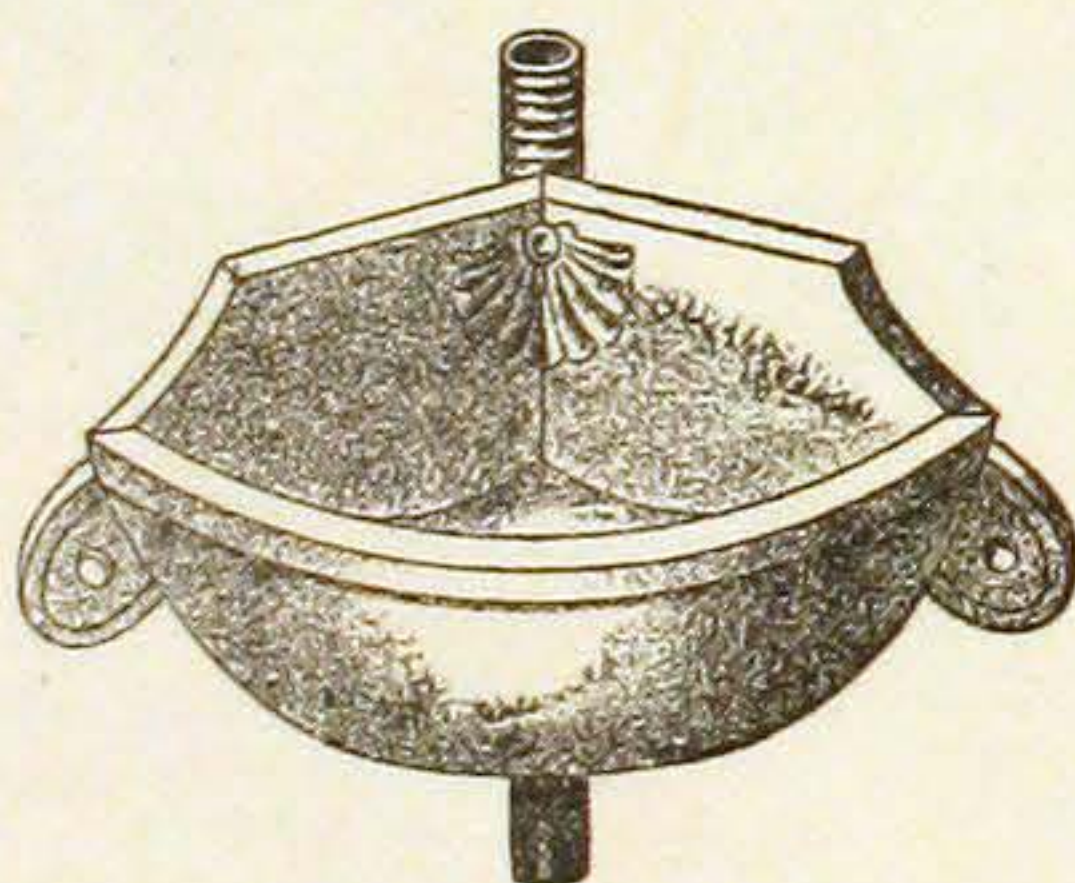
**Fig. 973.**



No. 8.

Corner, Pierced Pipe and Strainer.  
Large Size, 12 in. Small Size, 10 in.

**Fig. 974.**

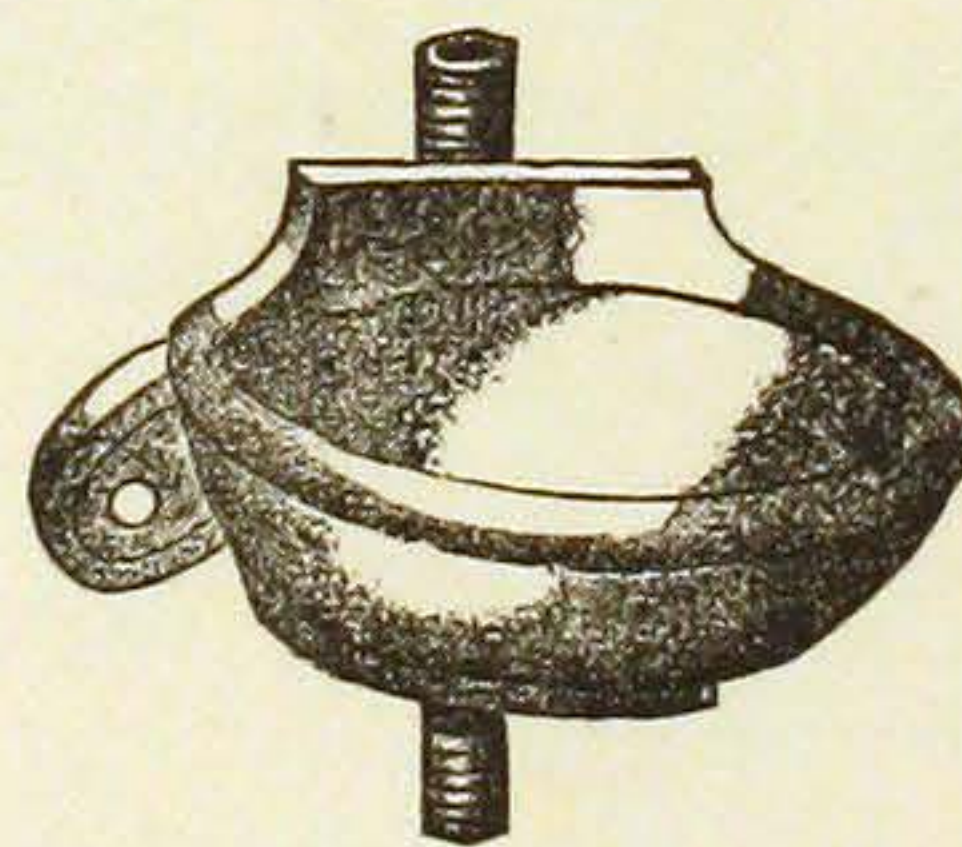


No. 9.

No Overflow.

Corner, Cane Color Outside,  
White Inside. Size, 10 in.

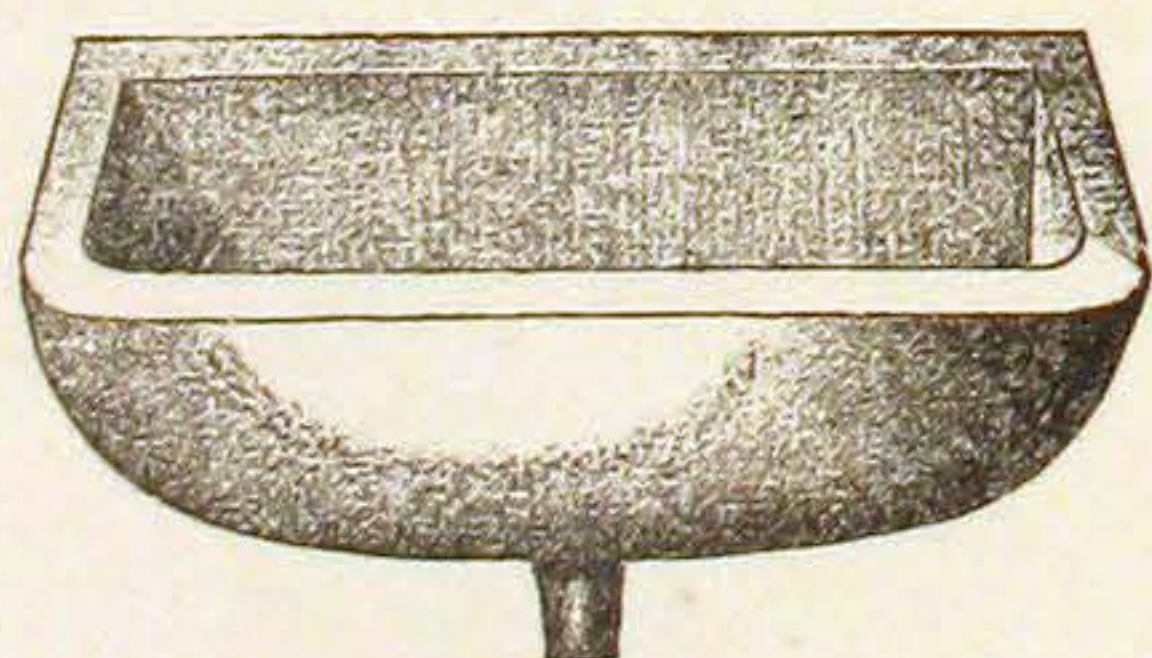
**Fig. 975.**



No. 10.

Oblong, Cane Color Outside.  
White Inside. Size, 9 x 12 in.

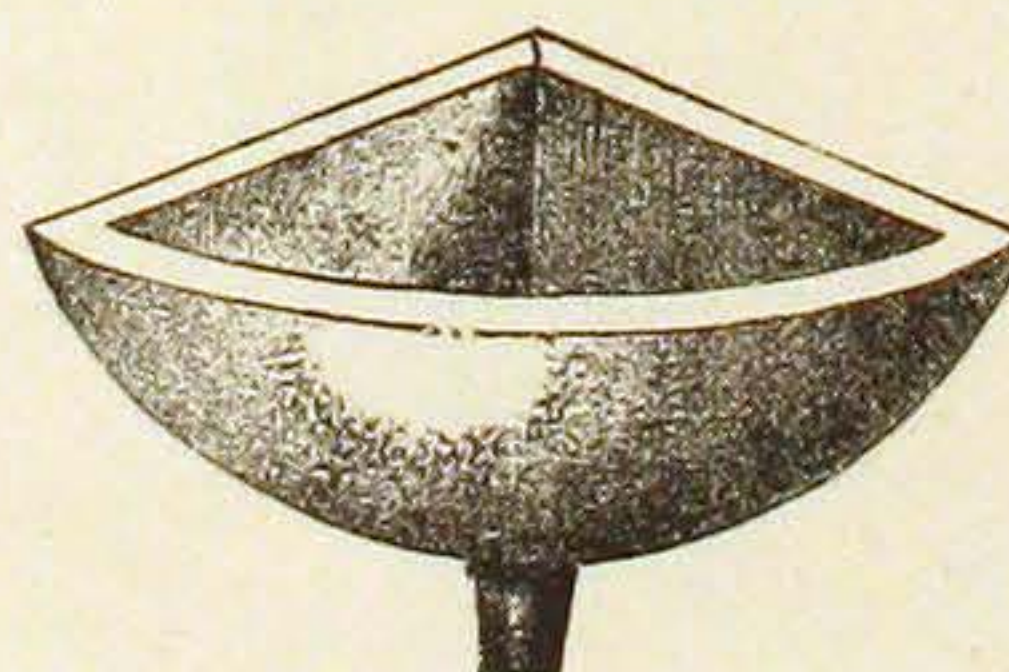
**Fig. 976.**



No. 11.

Oblong, with Strainer, but no Supply.  
Large Size, 10 x 18 in. Small Size, 9 x 15 in.

**Fig. 977.**



No. 12.

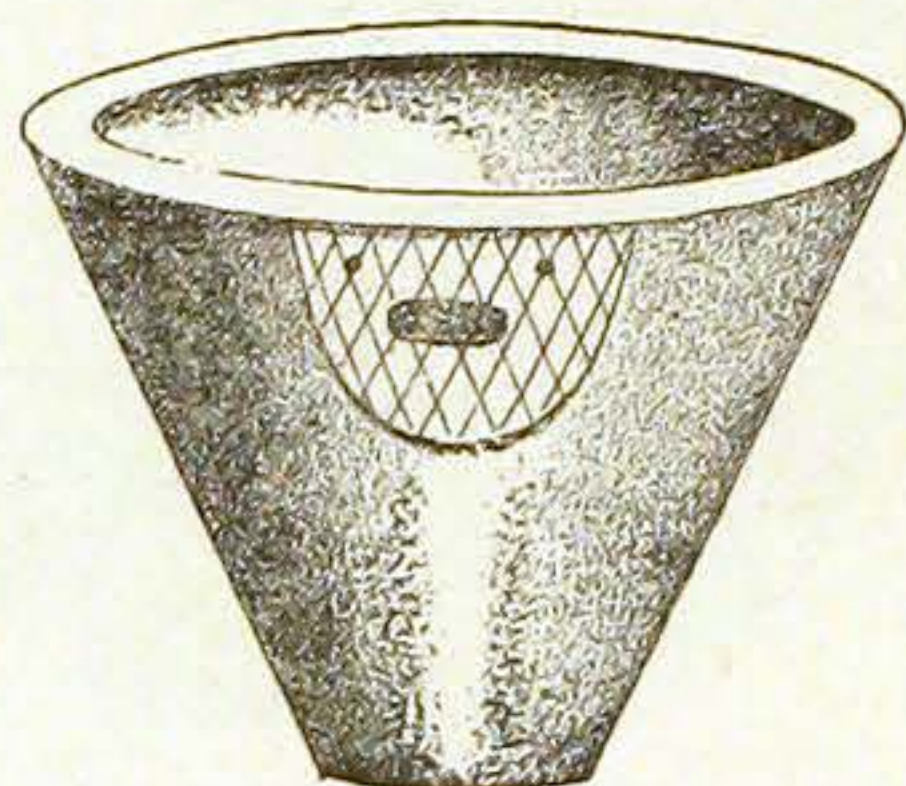
Corner, with Strainer, but no Supply.  
Large Size, 12 in. Small Size, 10 in.



## SHIP CLOSET BASINS.

## NEW PATTERN.

Fig. 978.



White, 13 inches diameter, Outside. Size, 3, 3½, 4, 4½ inches opening.

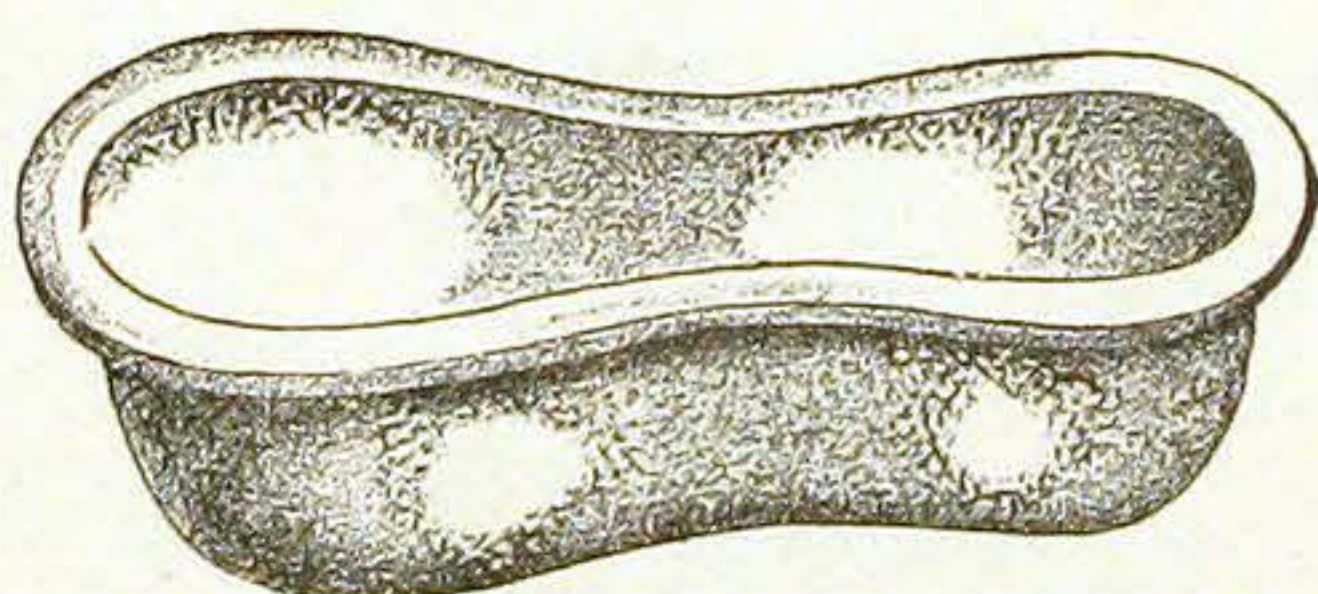
## OLD PATTERN.

Fig. 979.



## BIDET PAN.

Fig. 980.

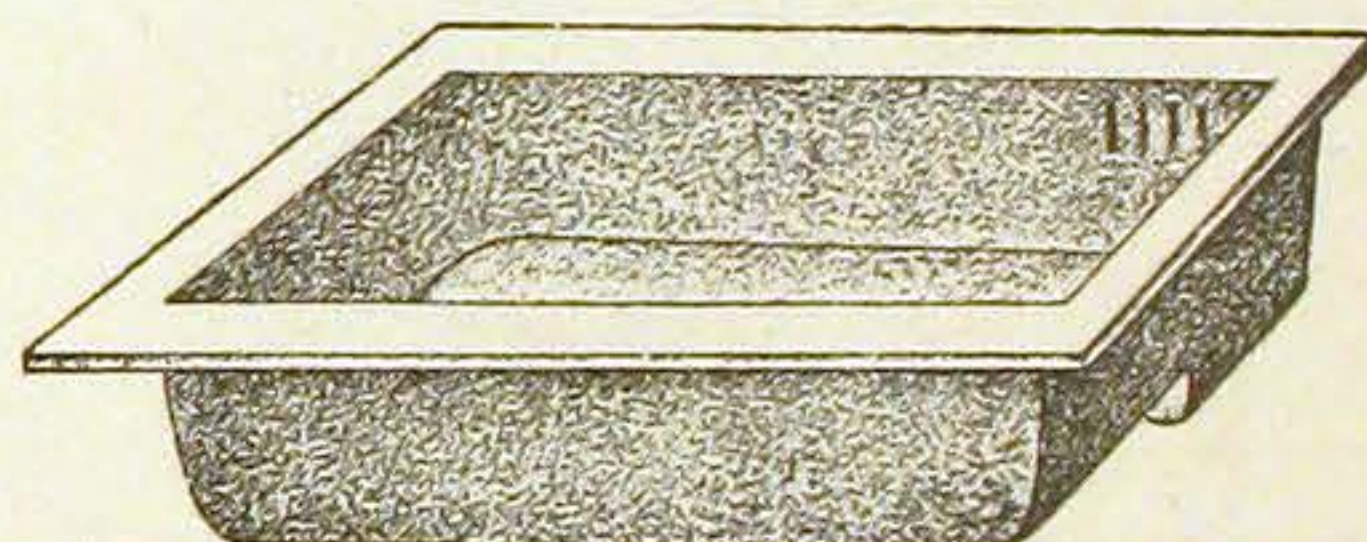


With or without Plug-hole.

White, large size, 20 in.; small size 19 in.

## EARTHEN SINK.

Fig. 981.



White, all sizes from 12 x 20 to 17 x 25 in.

## EARTHEN HOPPERS.

Fig. 982.



With Straight or Side Arm.

4 in. opening.

Fig. 983.



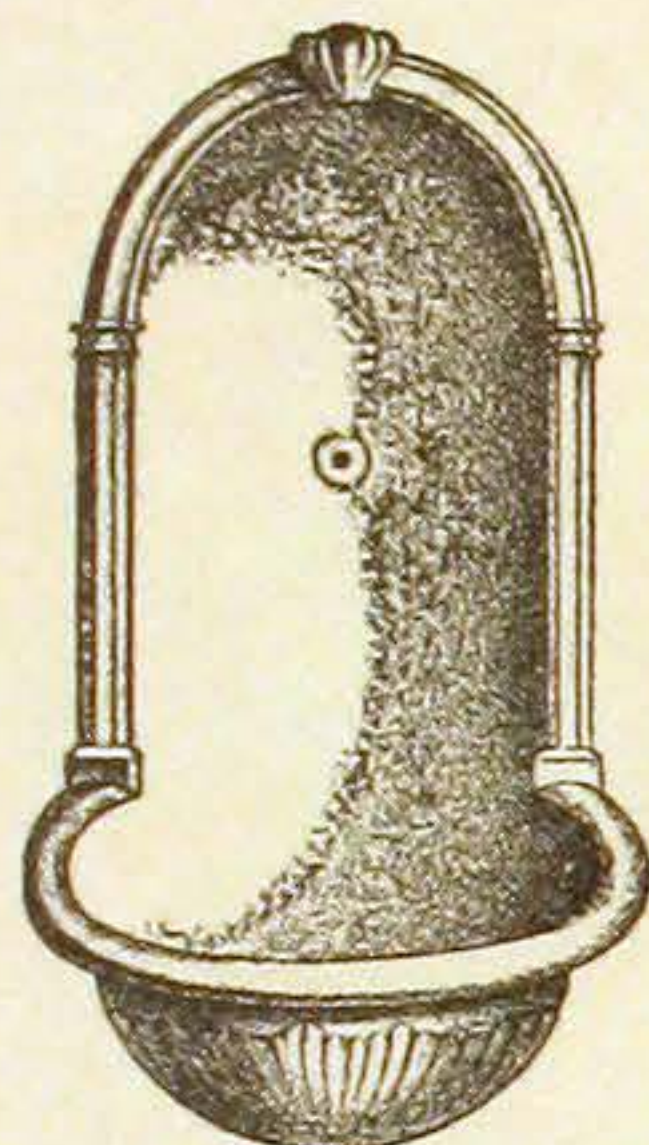
With Strainer.

3 and 4 in. opening.



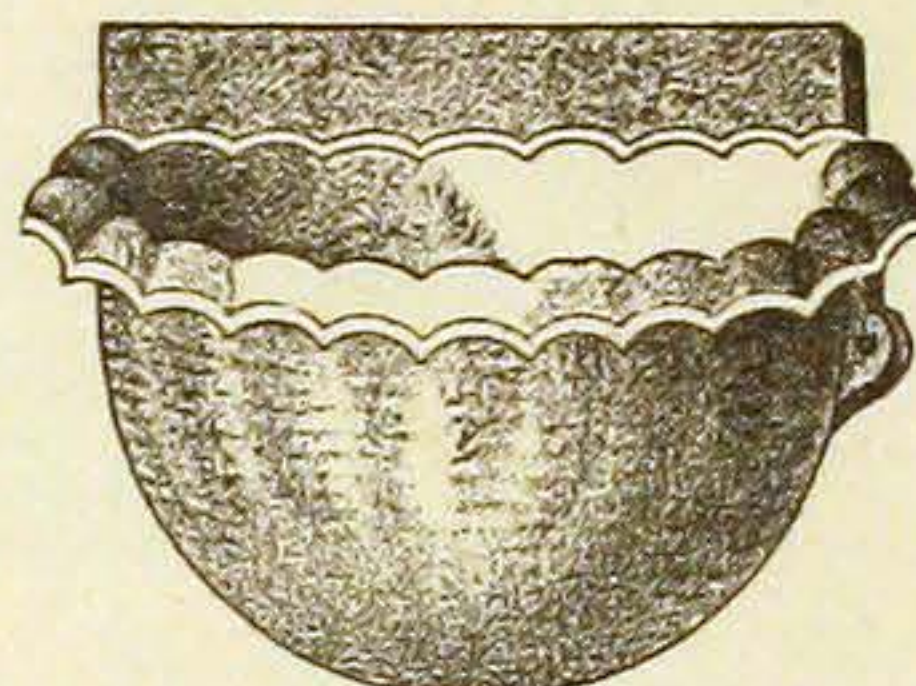
## DRINKING FOUNTAINS. MARBLED AND WHITE.

**Fig. 984.**



Size, 14 x 24 inches.

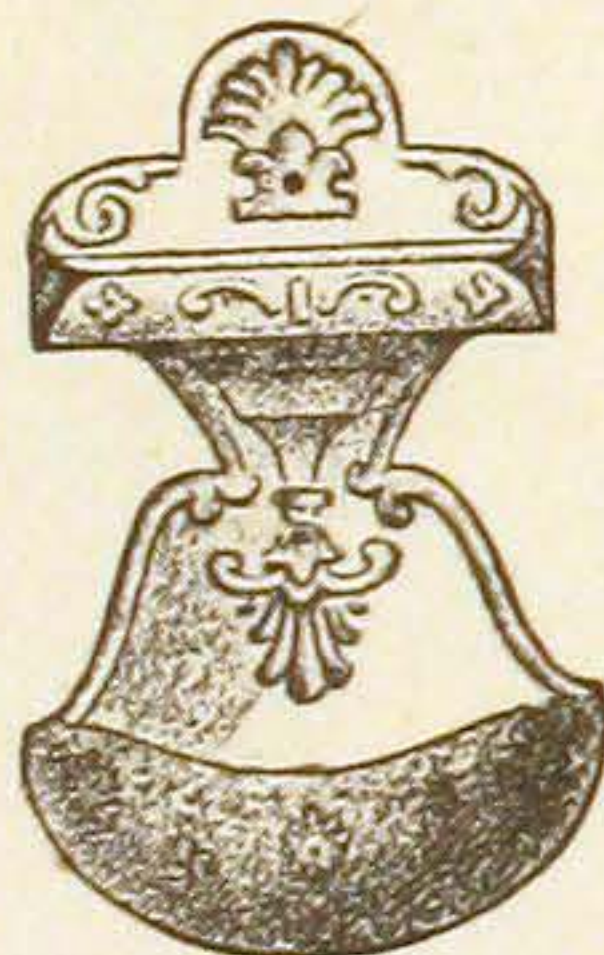
**Fig. 985.**



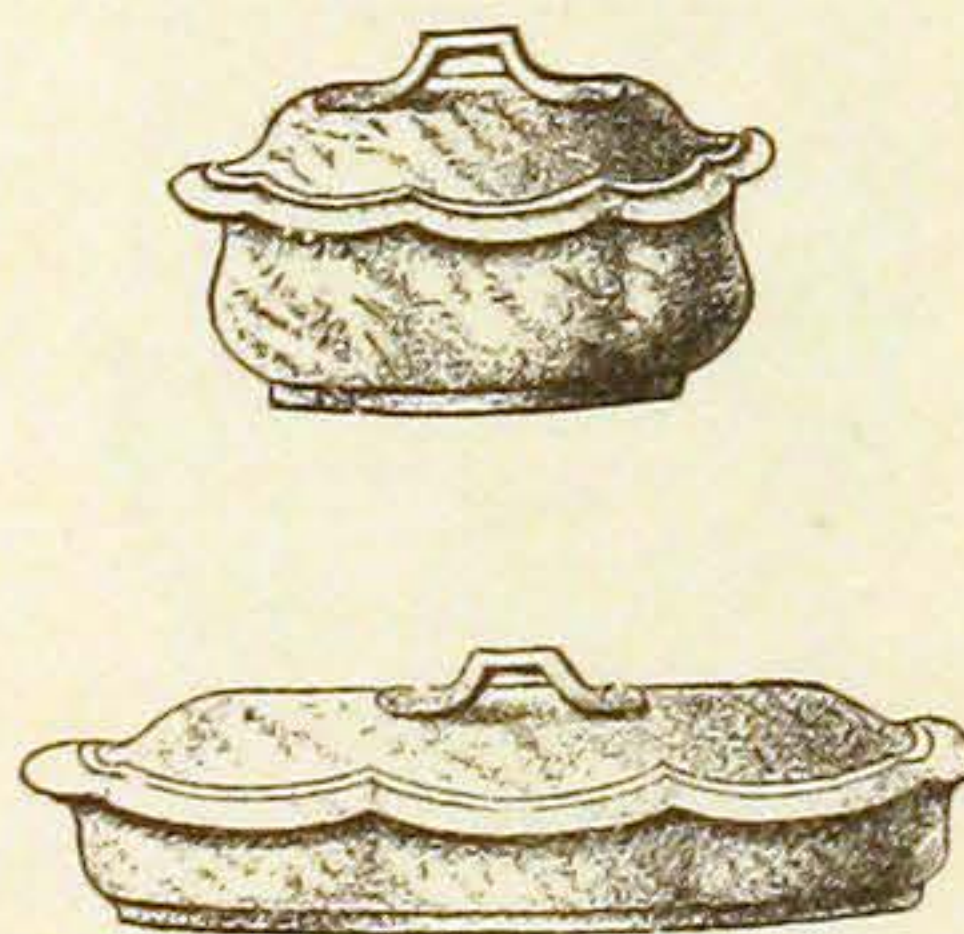
Size, 8 x 18½ inches.

## SOAP CUPS AND BRUSH TRAYS. MARBLED AND WHITE.

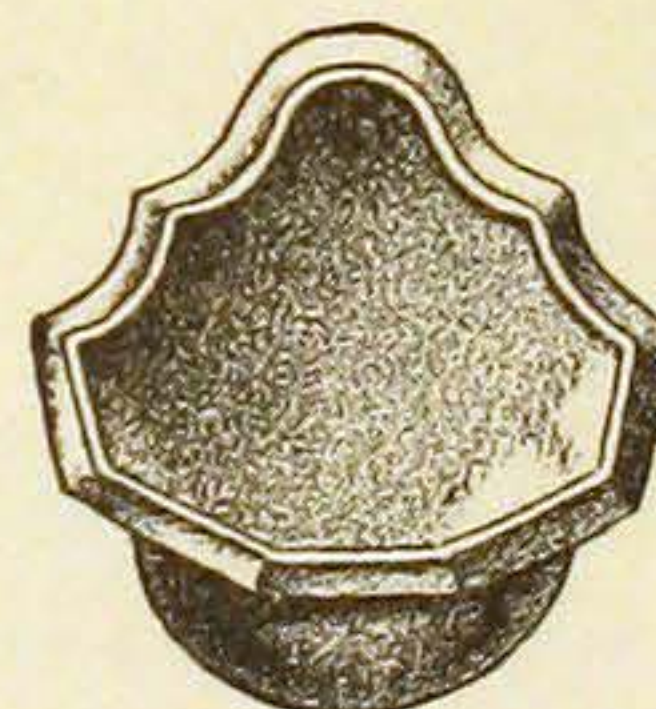
**Fig. 986.**



**Fig. 987.**



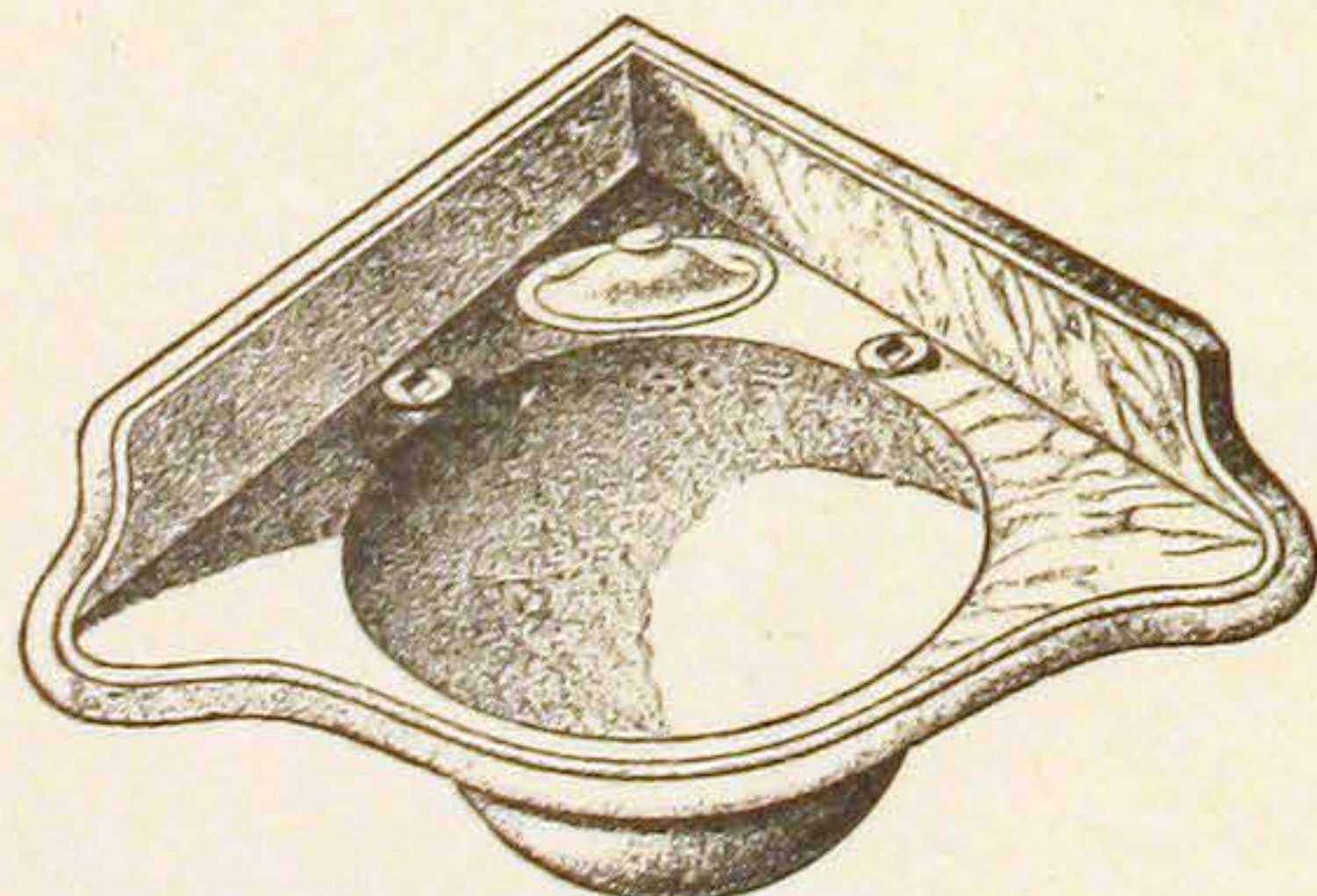
**Fig. 988.**



These can be decorated to match Fancy Basins.

## SLABS AND BASINS, COMBINED. MARBLED.

**Fig. 989.**

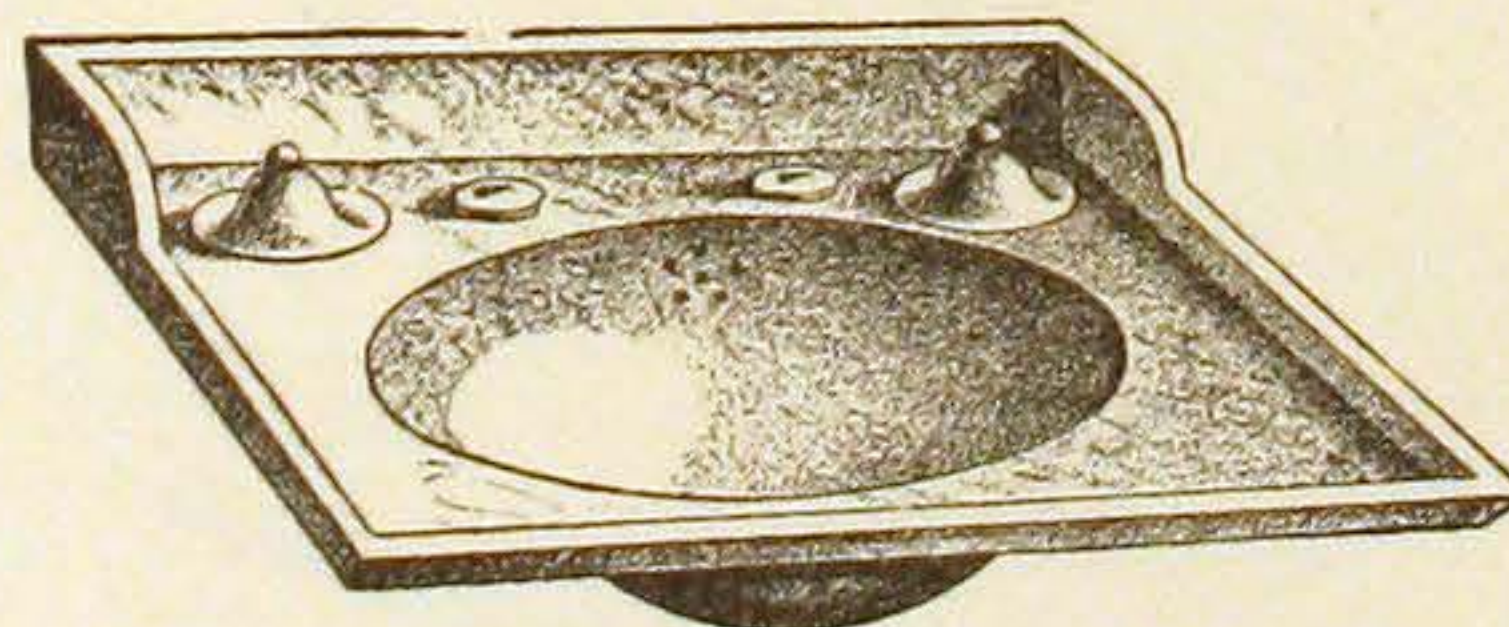


No. 1, Corner.

With Common Overflow, Patent Overflow, or Rubber Plug.

Size, 19 x 19 ; Basin, 11 inches inside.

**Fig. 990.**



No. 3, Square.

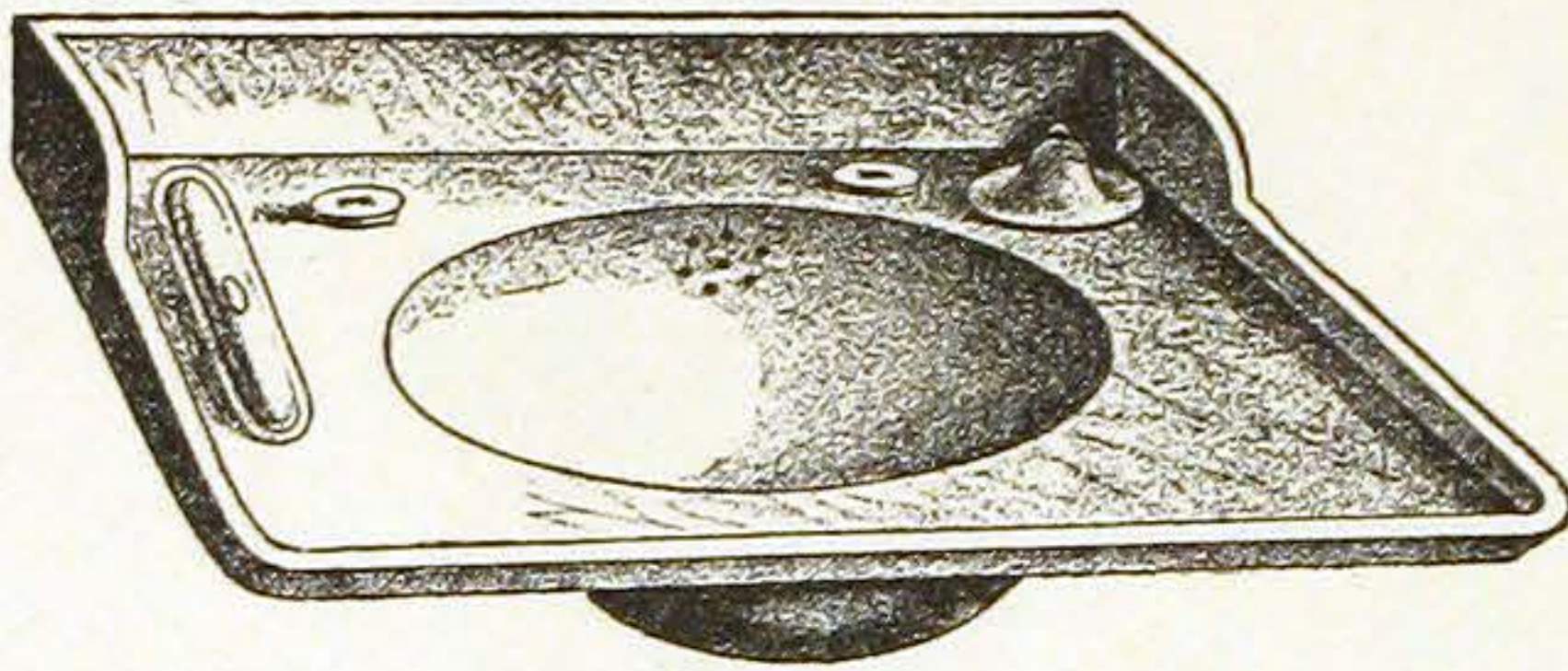
Size, 18 x 18 ; Basin, 11 inches inside.



# SLABS AND BASINS, COMBINED.

No. 4, Marbled.

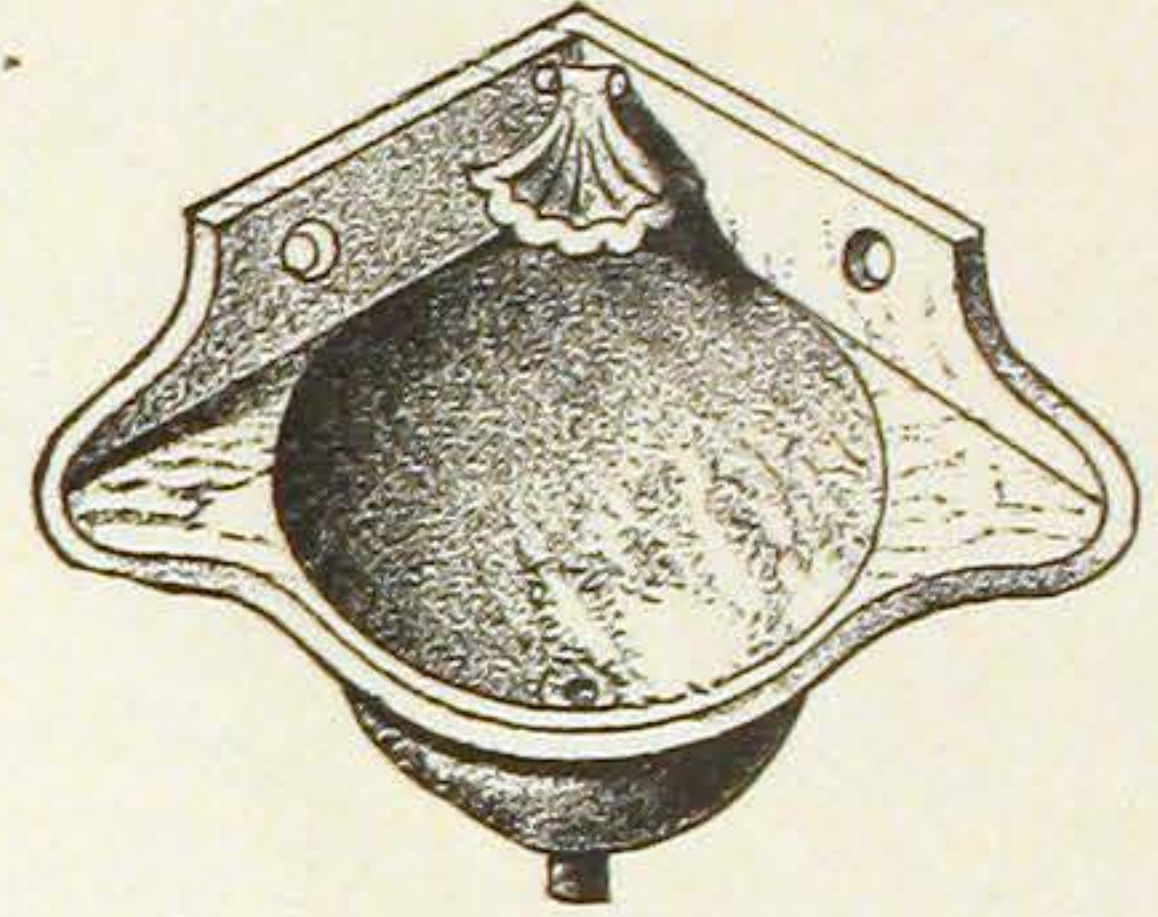
**Fig. 991.**



Size, 17 x 24; Basin, 12 inches inside.

No. 5, Marbled and White.

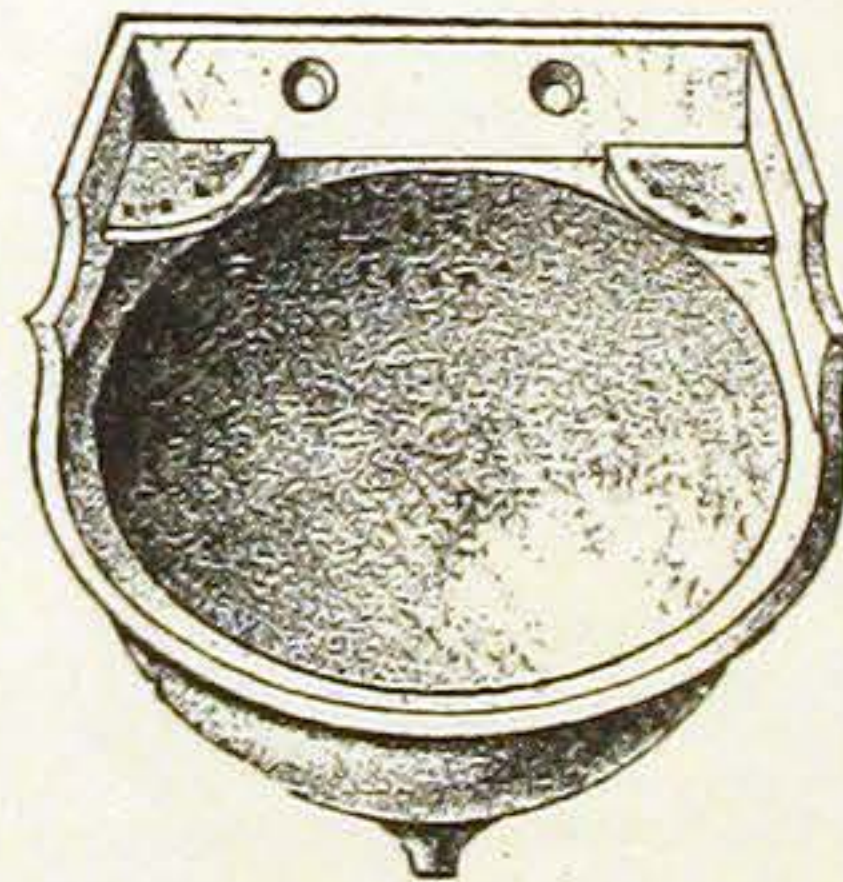
**Fig. 992.**



Size, 12 x 14 inches. No Cock hole.

No. 6, Marbled and White.

**Fig. 993.**

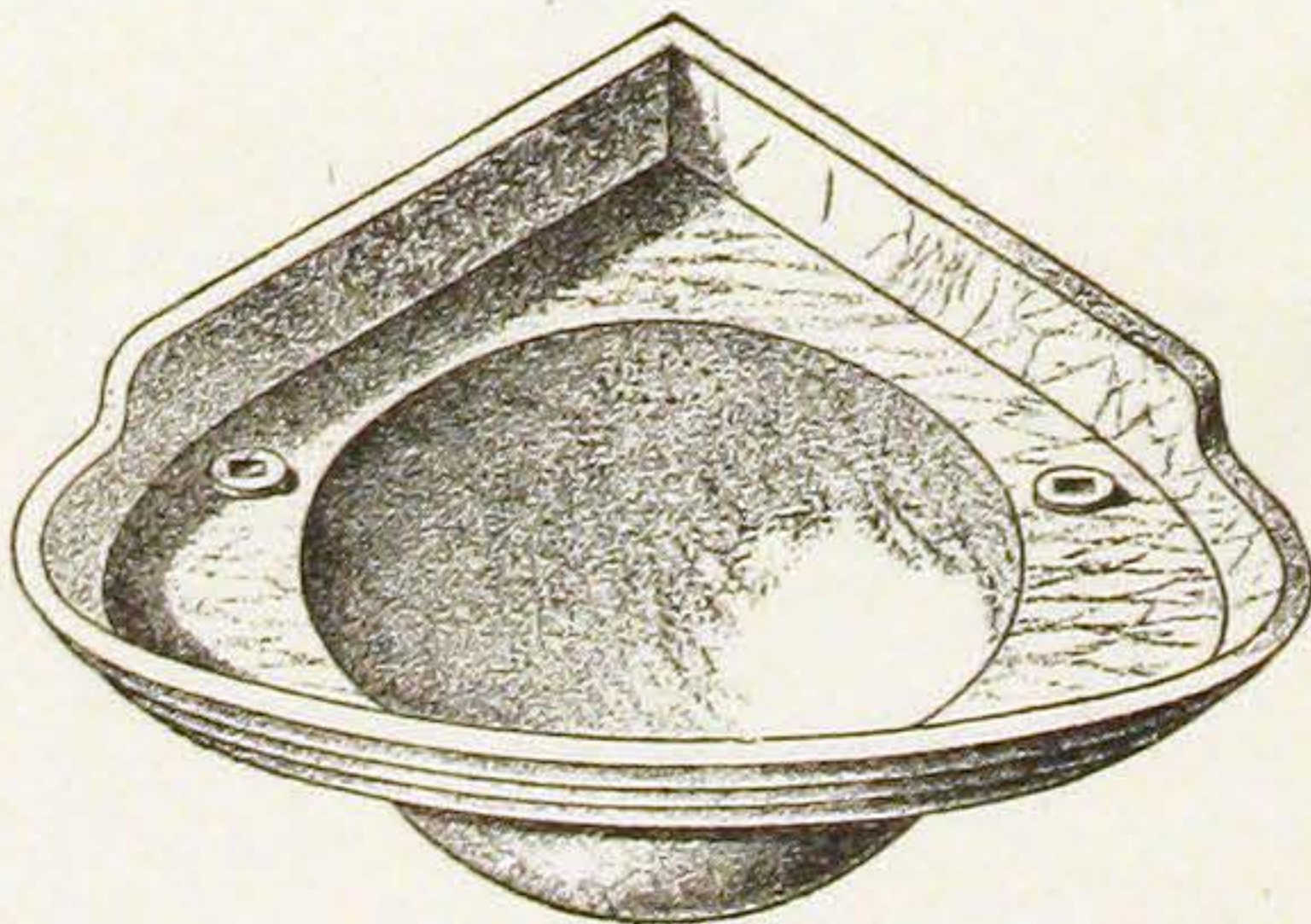


With Common Overflow, Patent Overflow or Rubber Plug.

Size, 12 x 12 inches. No Cock hole.

No. 7, Marbled.

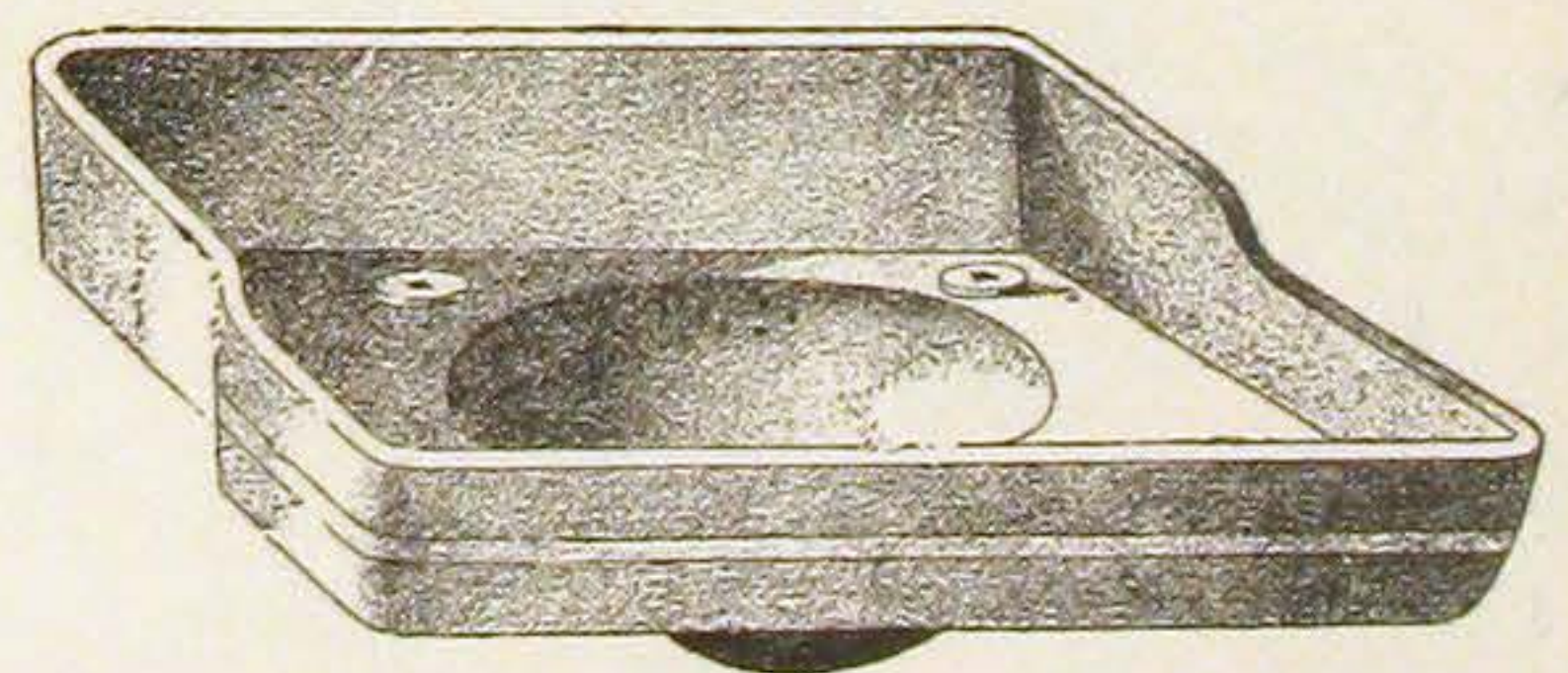
**Fig. 994.**



Size, 28 x 20 inches; Basin, 12½ inches inside.

No. 8, Marbled.

**Fig. 995.**



With Common Overflow.

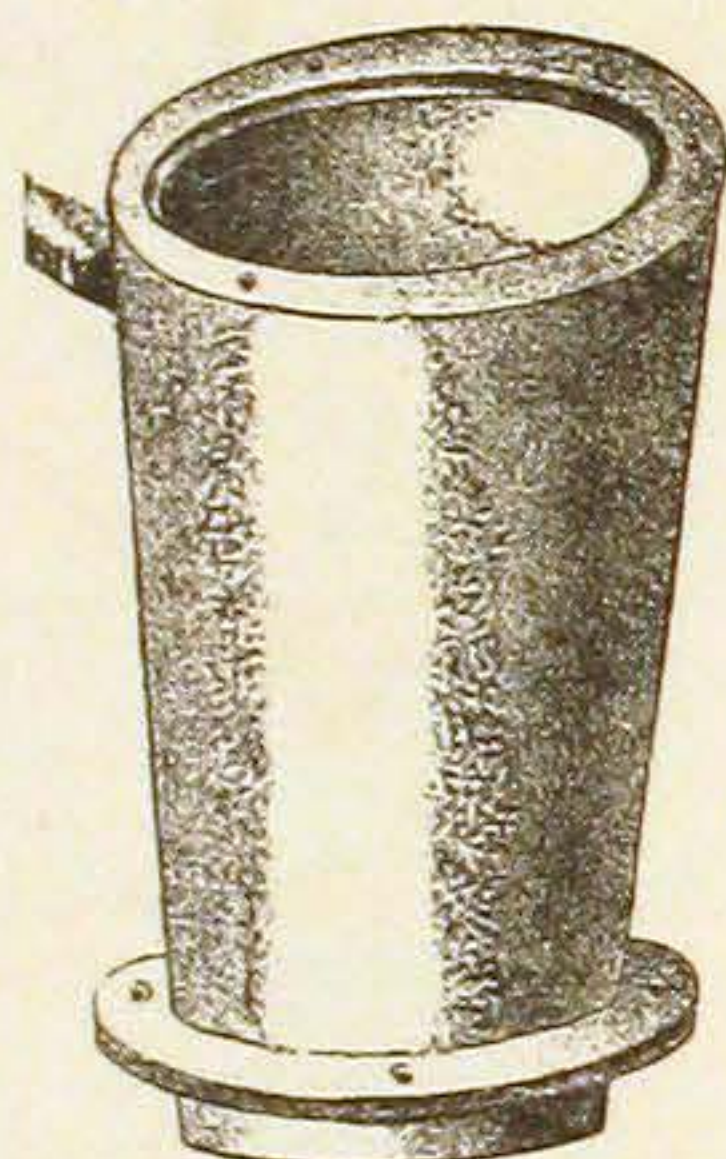
Size, 18 x 24 inches; Basin, 12½ inches inside.



# RAILROAD CAR HOPPERS, URINALS AND WASH BASINS.

PATTERN "A."

Fig. 996.



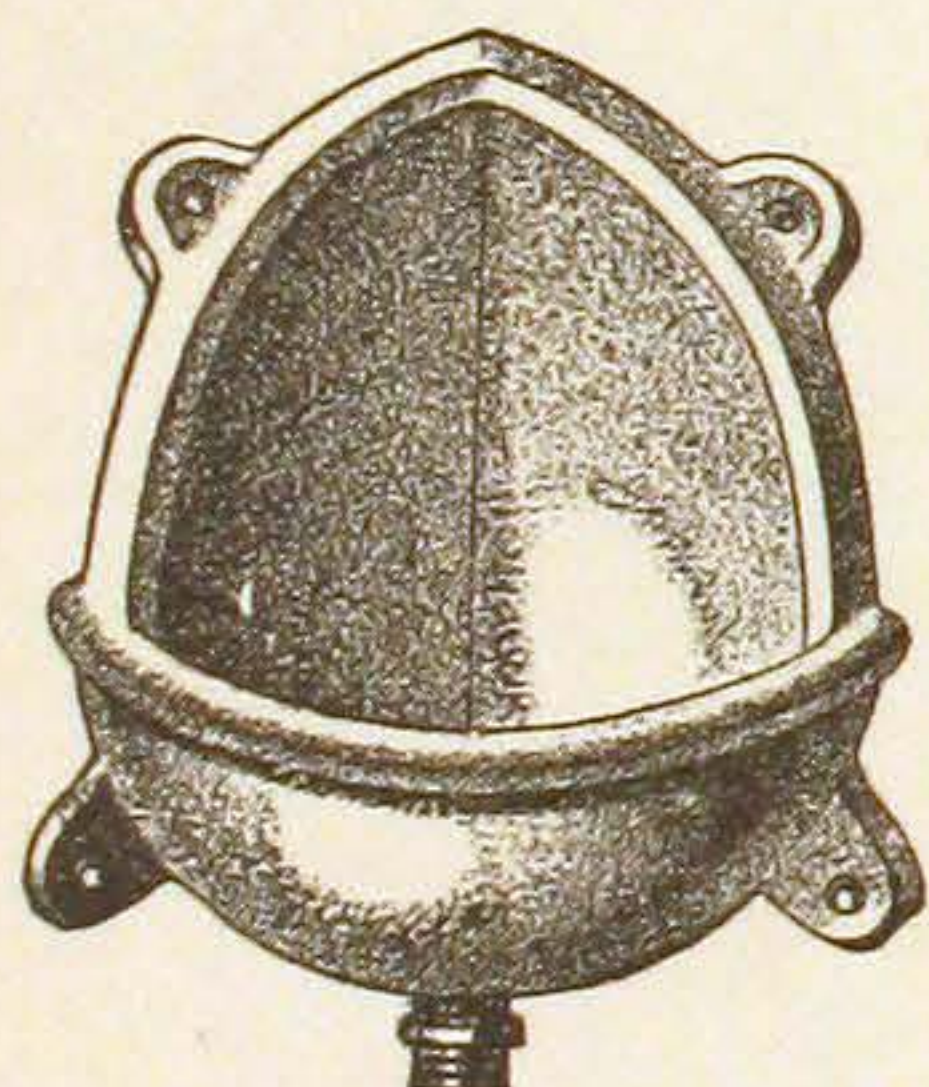
PATTERN "B."

Fig. 997.



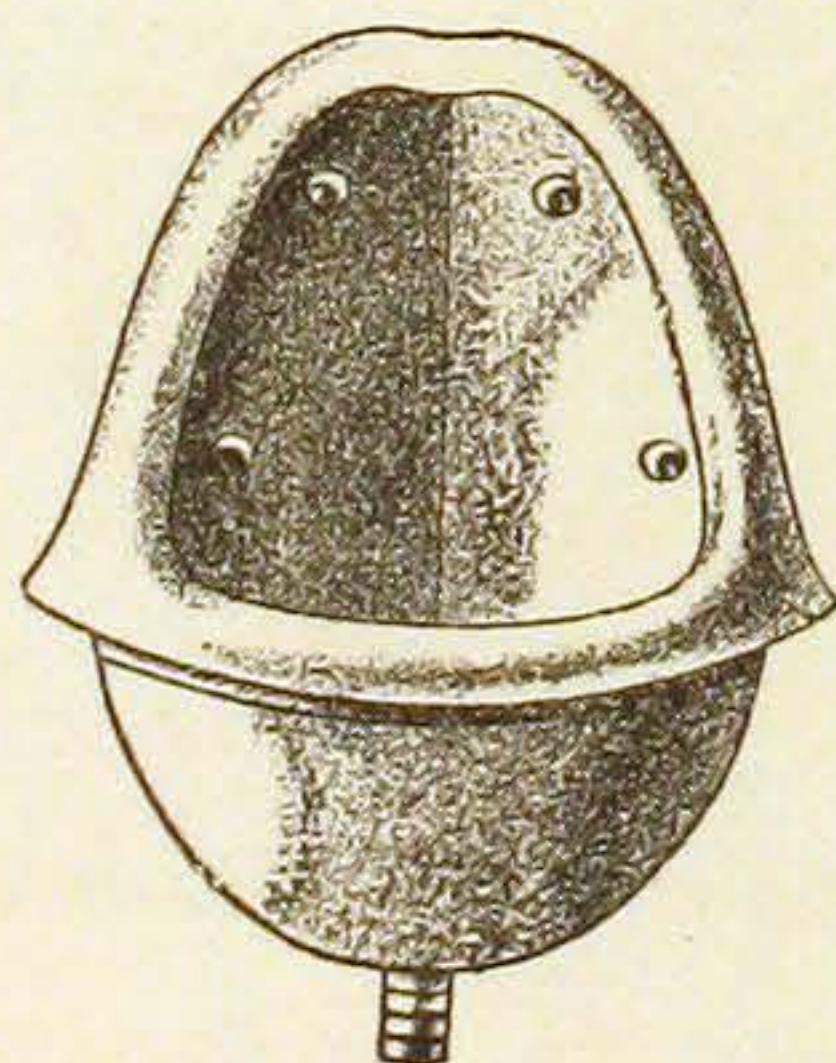
PATTERN "C."

Fig. 998.



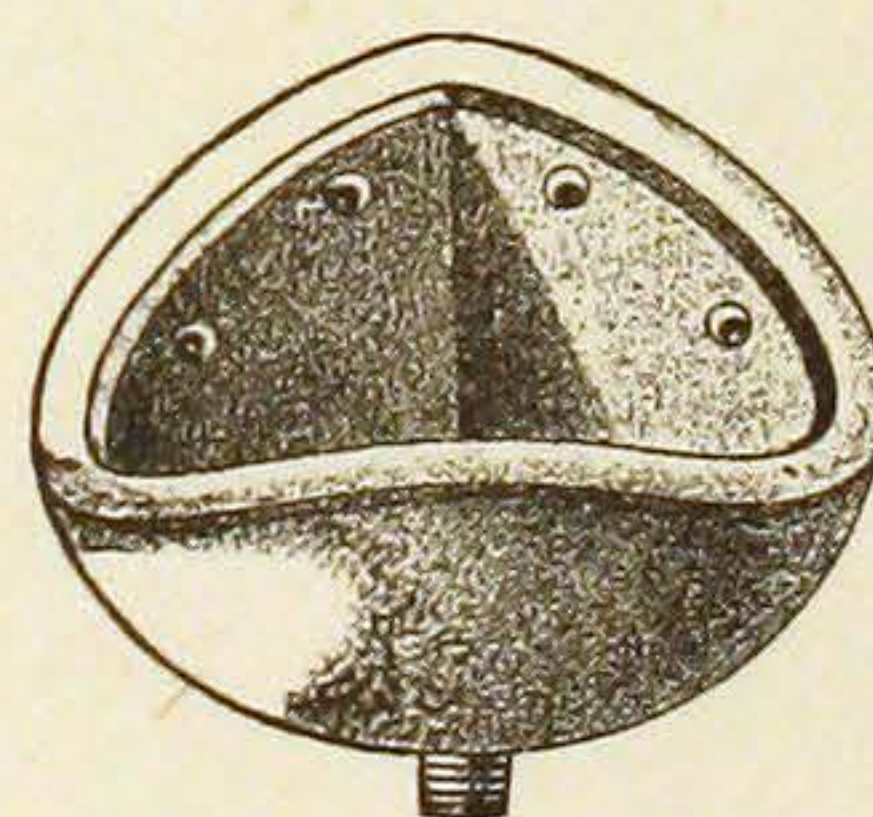
PATTERN "D."

Fig. 999.



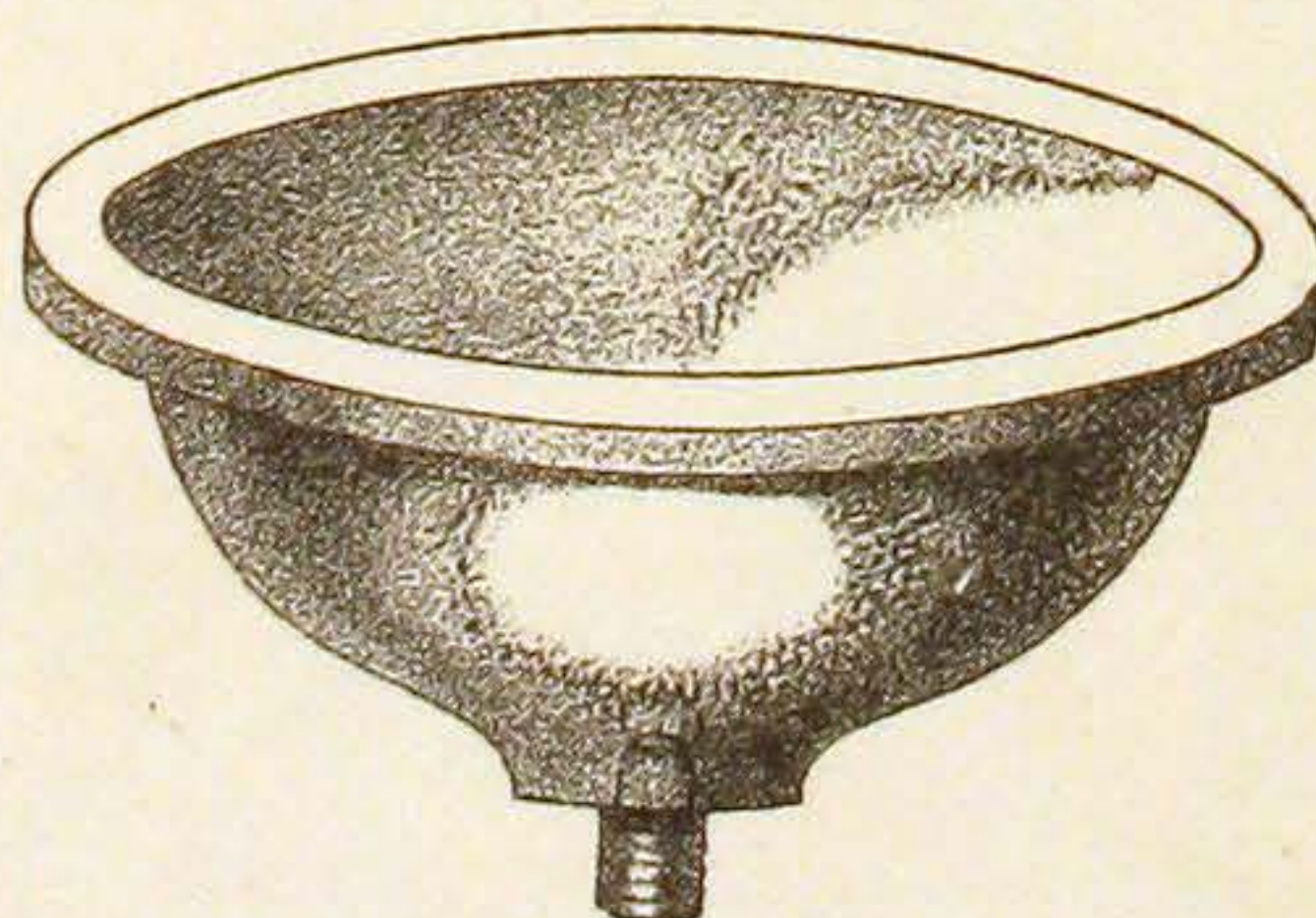
PATTERN "E."

Fig. 1000.



PATTERN "K."

Fig. 1001.



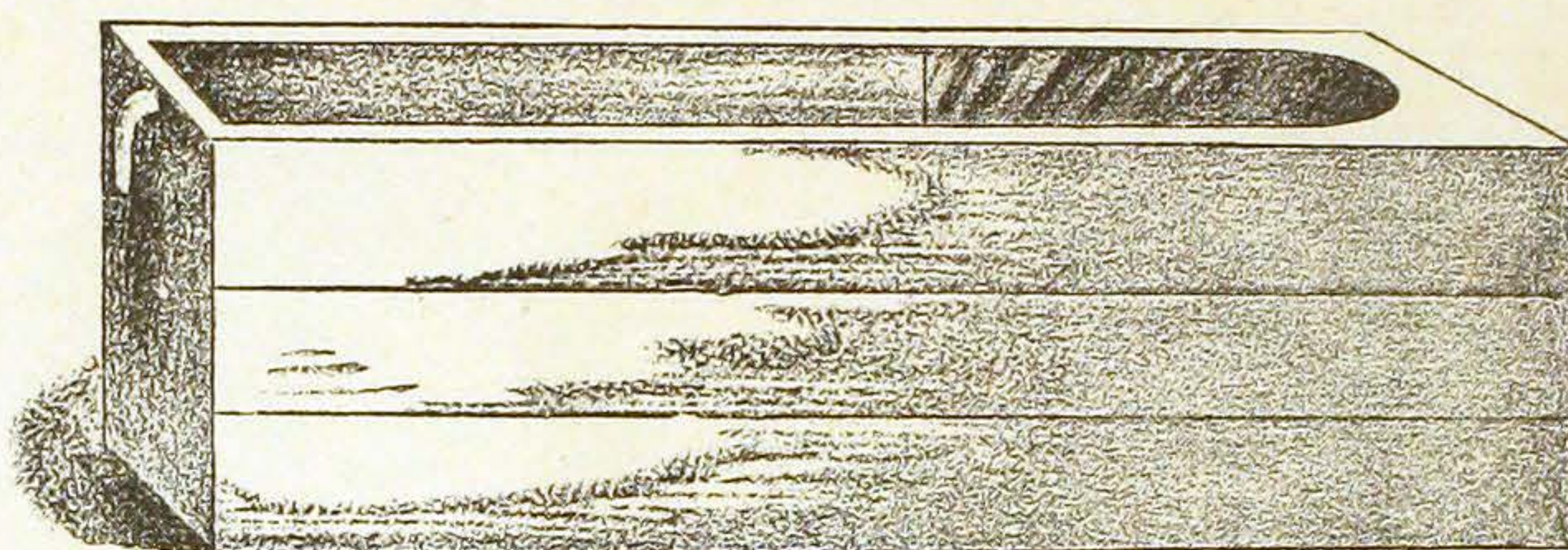
With Rubber Plug, 14 inches outside, 11 inches inside.

The above articles are made of extra strong White Granite Ware, highly glazed, and of a very heavy body. They have been approved by all the Railroad Companies in the country.

All sizes and patterns made to order.

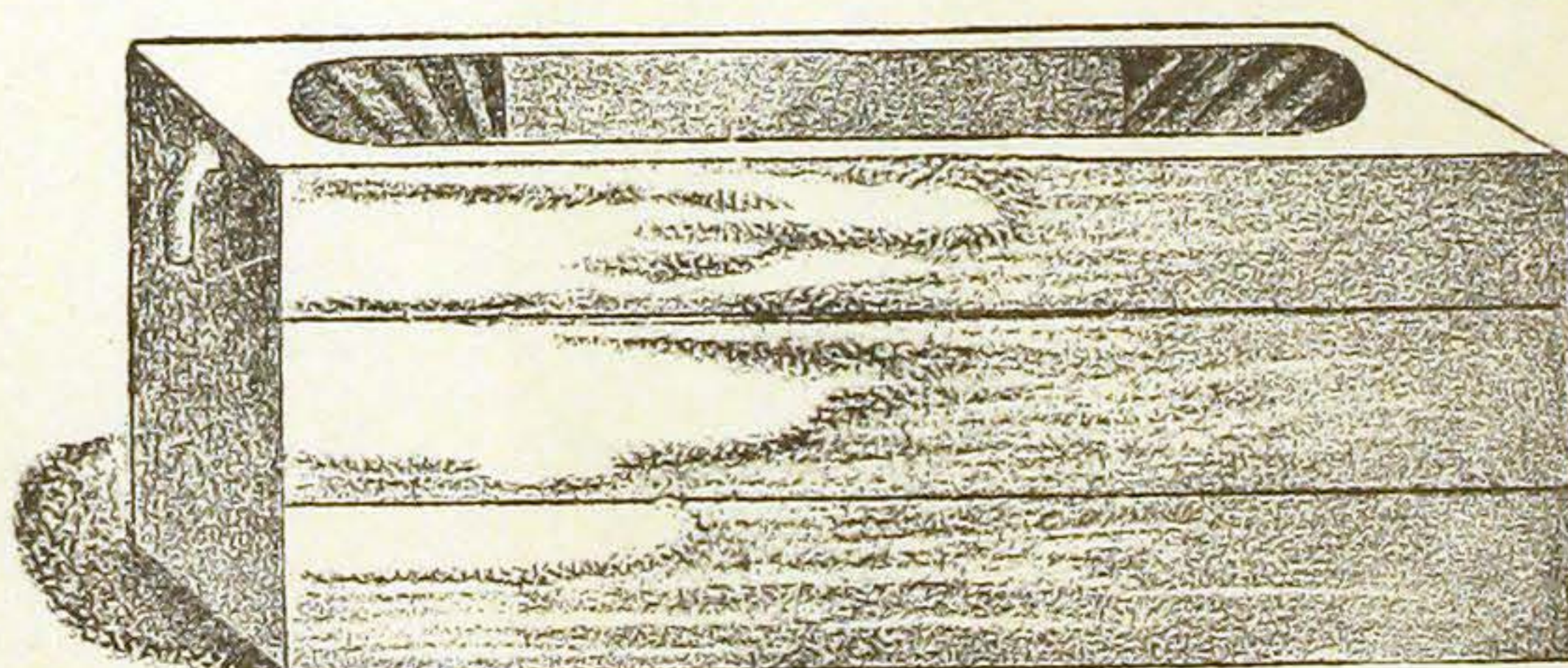


## COPPER BATH TUBS. NEW YORK PATTERN.

**Fig. 1002.**

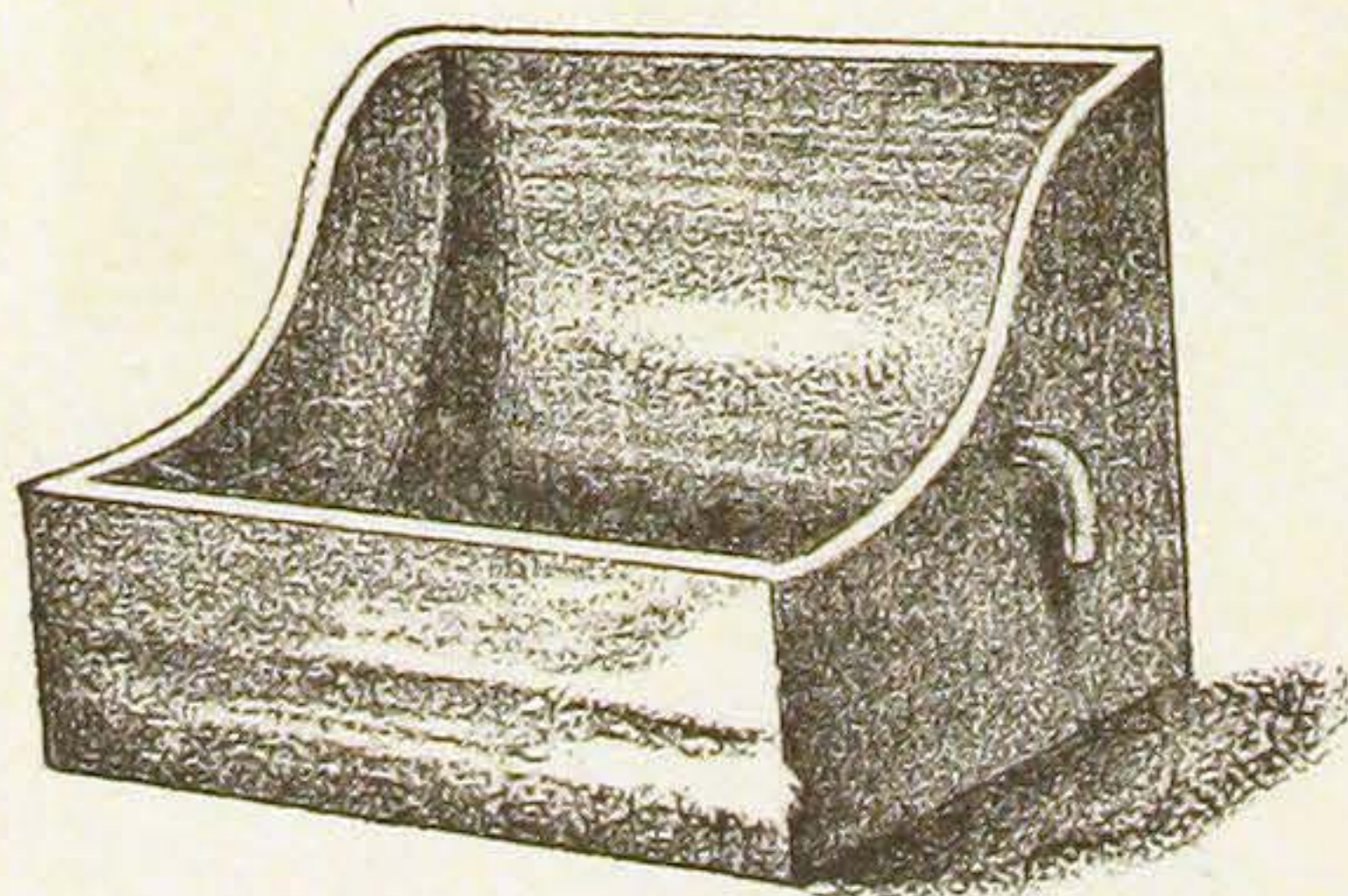
Size, 5, 5½ and 6 feet.

## FRENCH PATTERN.

**Fig. 1003.**

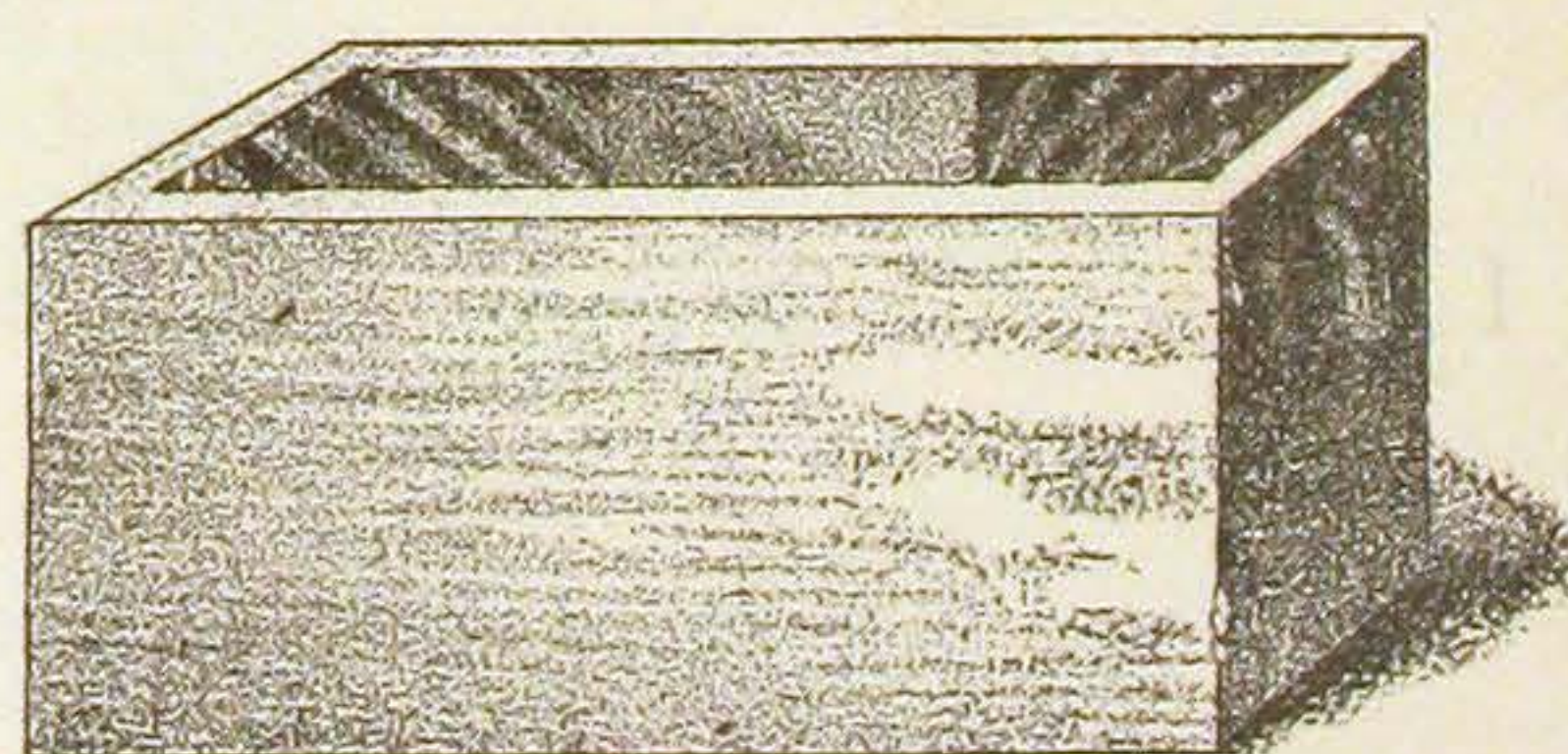
Size, 4, 4½ and 5 feet.

## SEAT BATH TUB.

**Fig. 1004.**

Size, 25 inches.

## FOOT BATH TUB.

**Fig. 1005.**

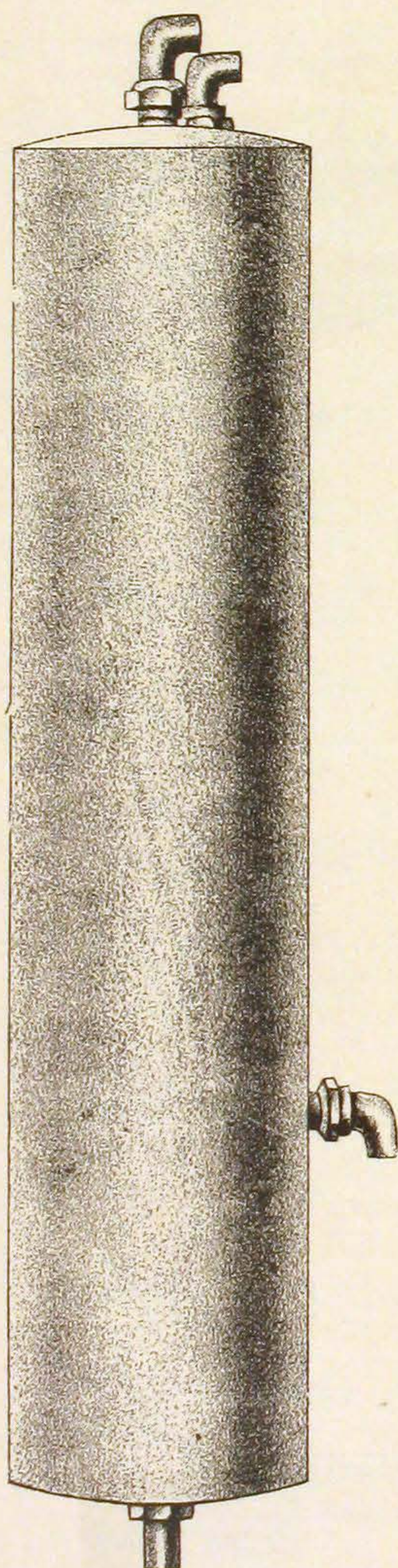
Size, 20 inches.



COPPER BOILERS.

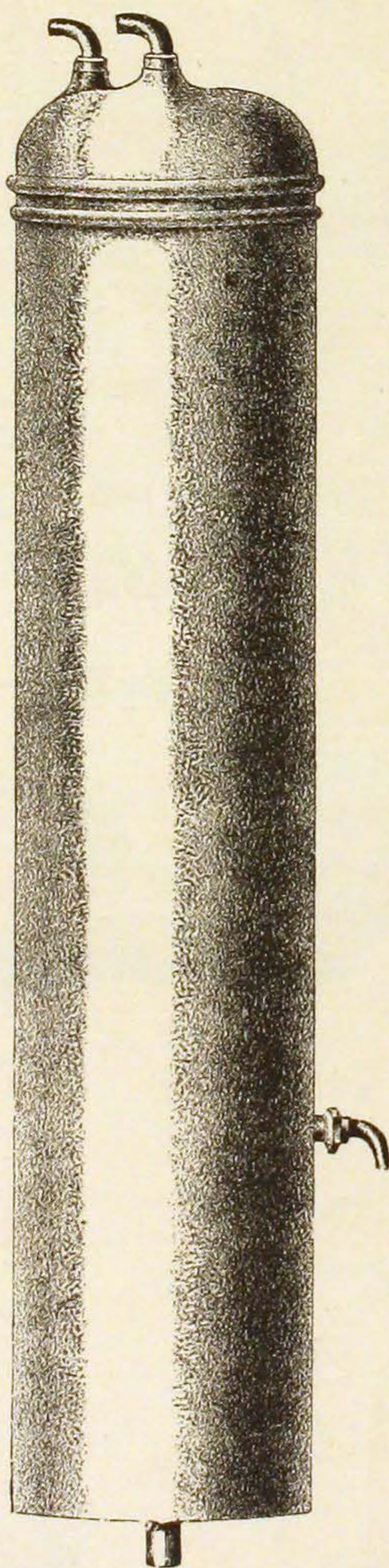
IRON BOILER.

**Fig. 1006.**



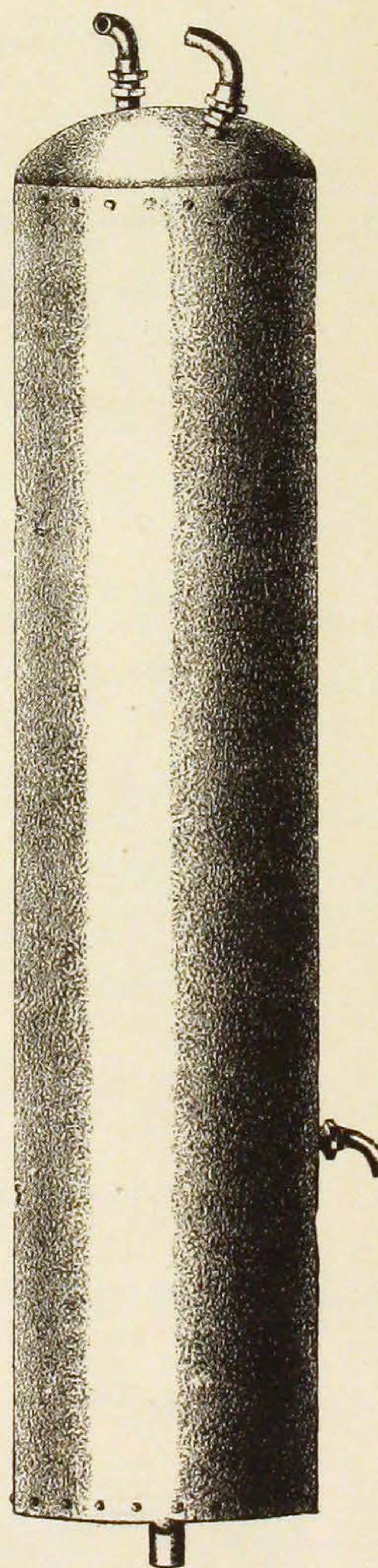
**Flat Head.**

**Fig. 1007.**



**Patent or Riveted Head.**

**Fig. 1008.**



**Plain or Galvanized.**

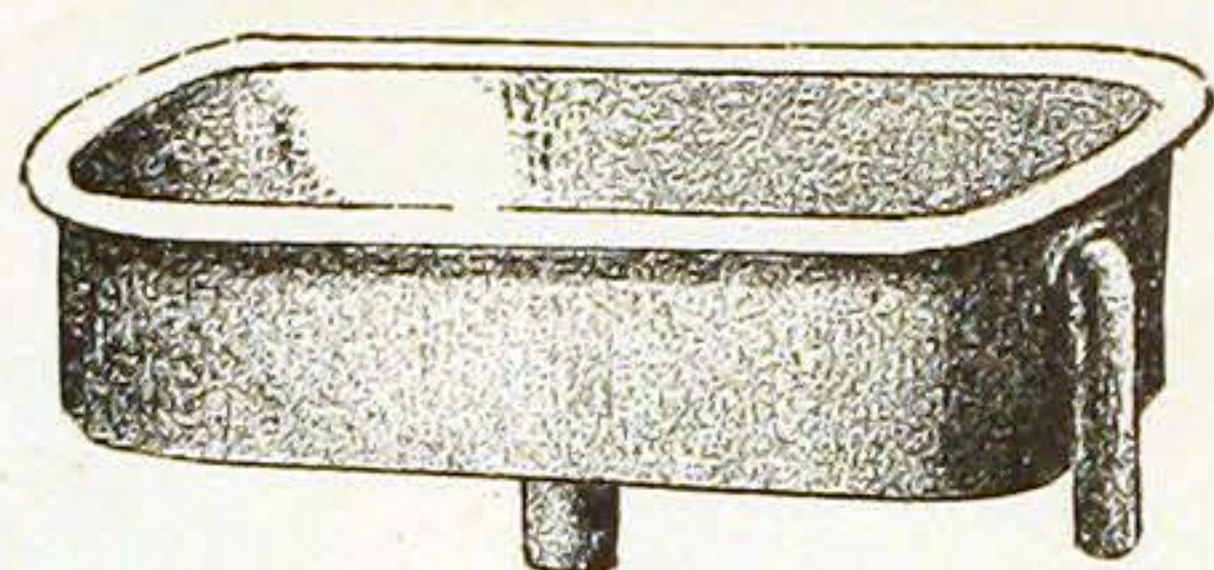
All Sizes.



## COPPER SINKS.

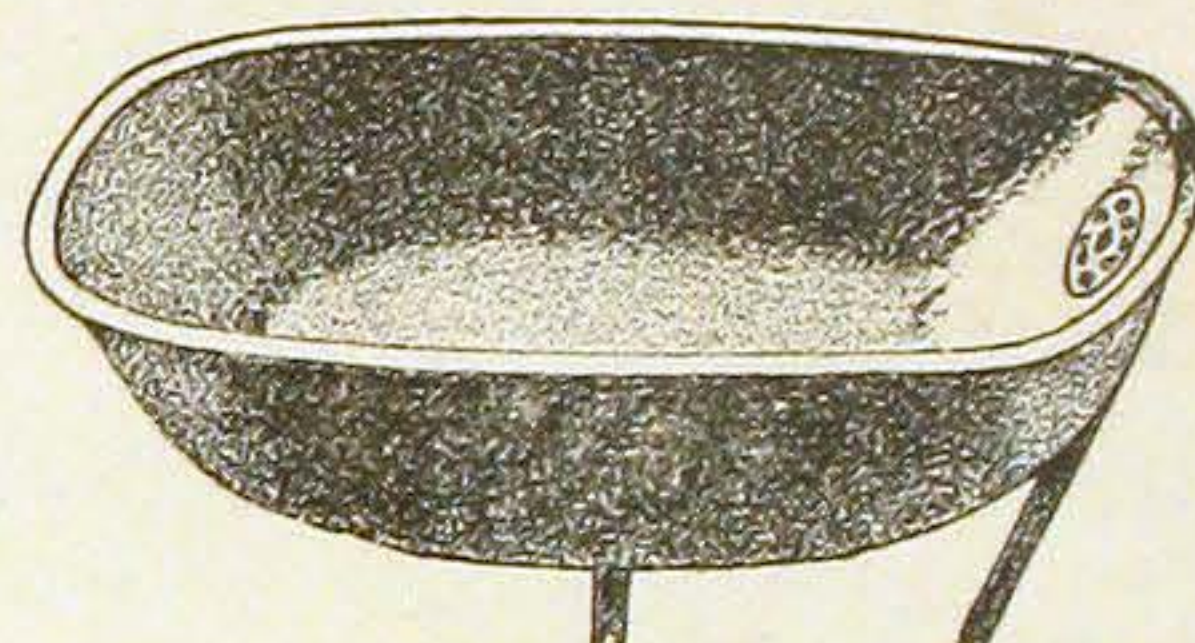
FLAT.

Fig. 1009.



OVAL.

Fig. 1010.



Sizes, 12 x 20, 13 x 21, 14 x 16, 14 x 20, 14 x 24, 16 x 24, 18 x 30.

## COPPER BIDET PAN.

Fig. 1011.

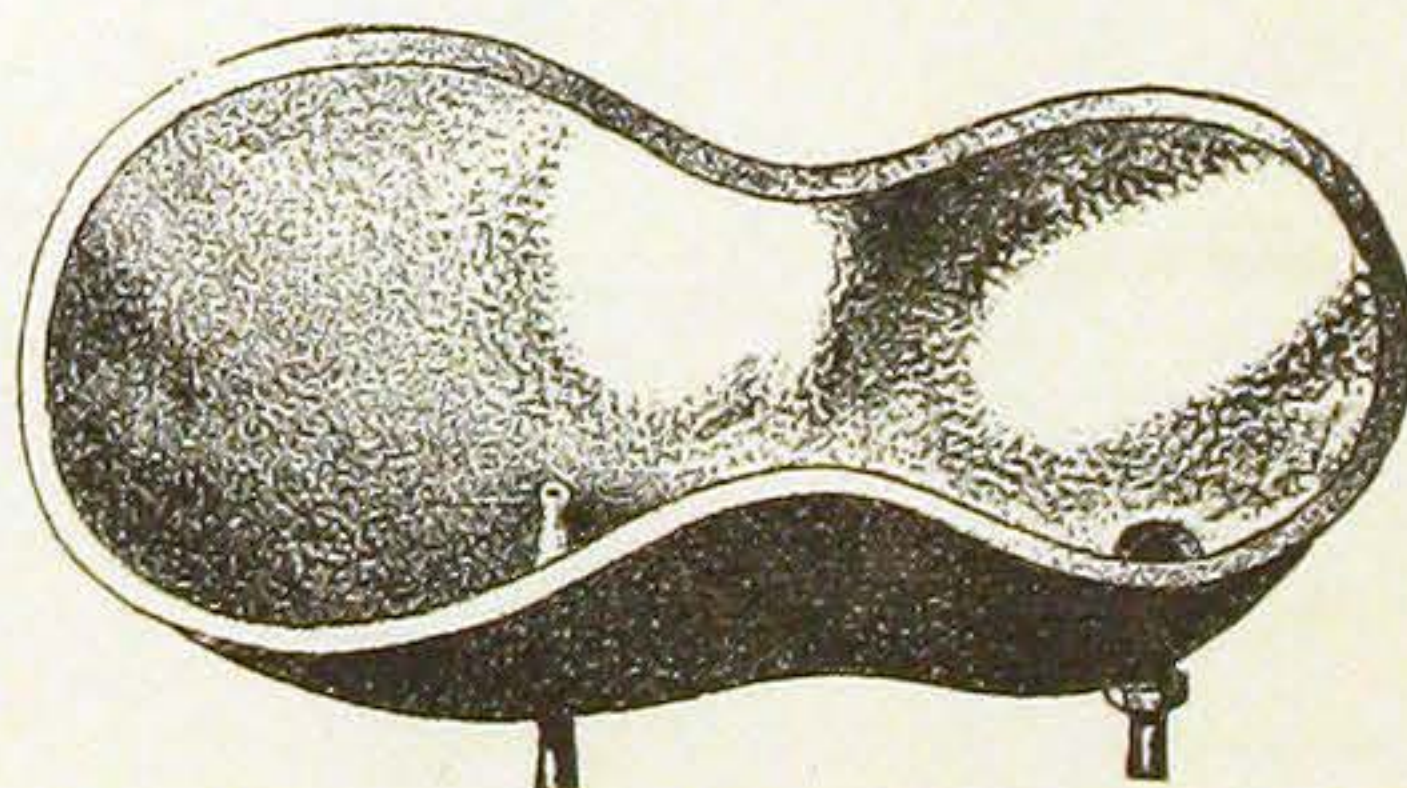
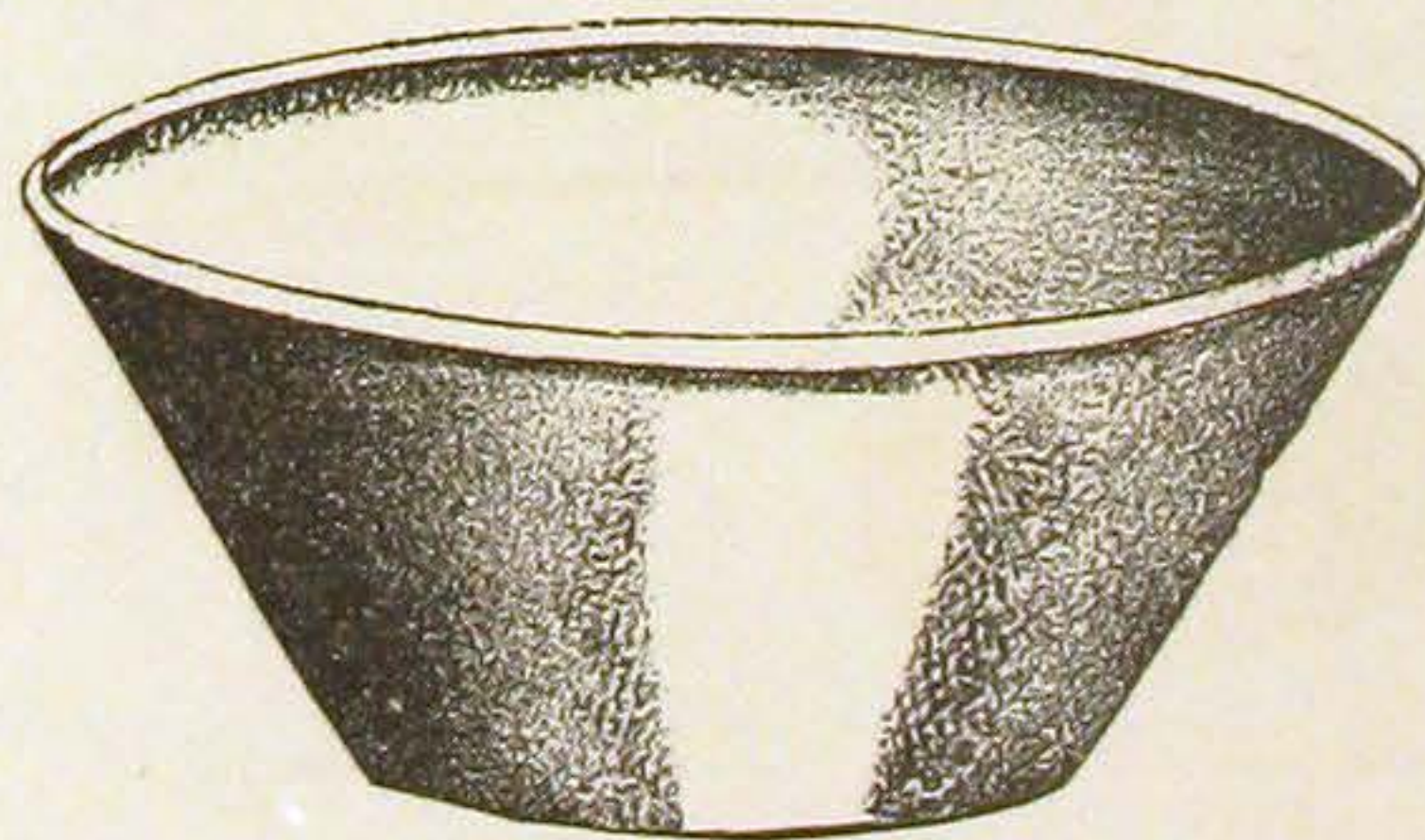
COPPER  
WASH BASIN.

Fig. 1012.

COPPER  
CLOSET PAN.

Fig. 1013.

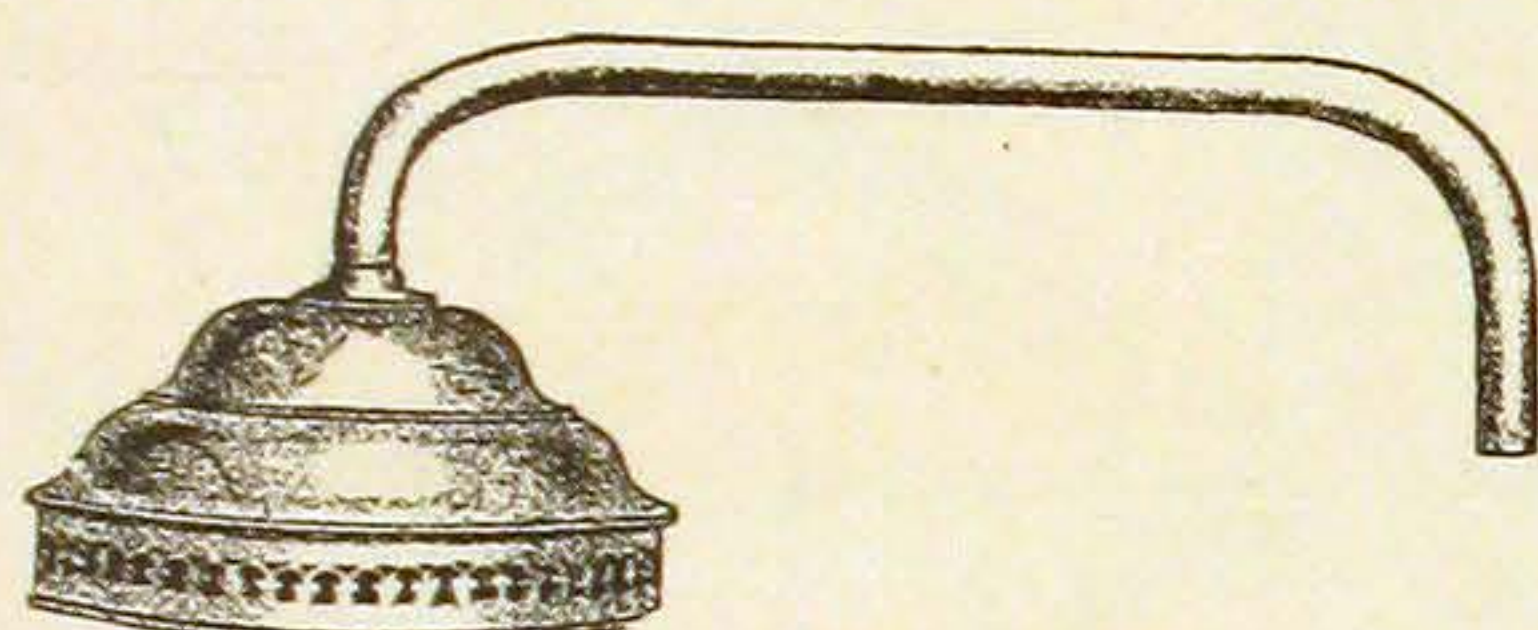




# COPPER SHOWERS.

Plain.

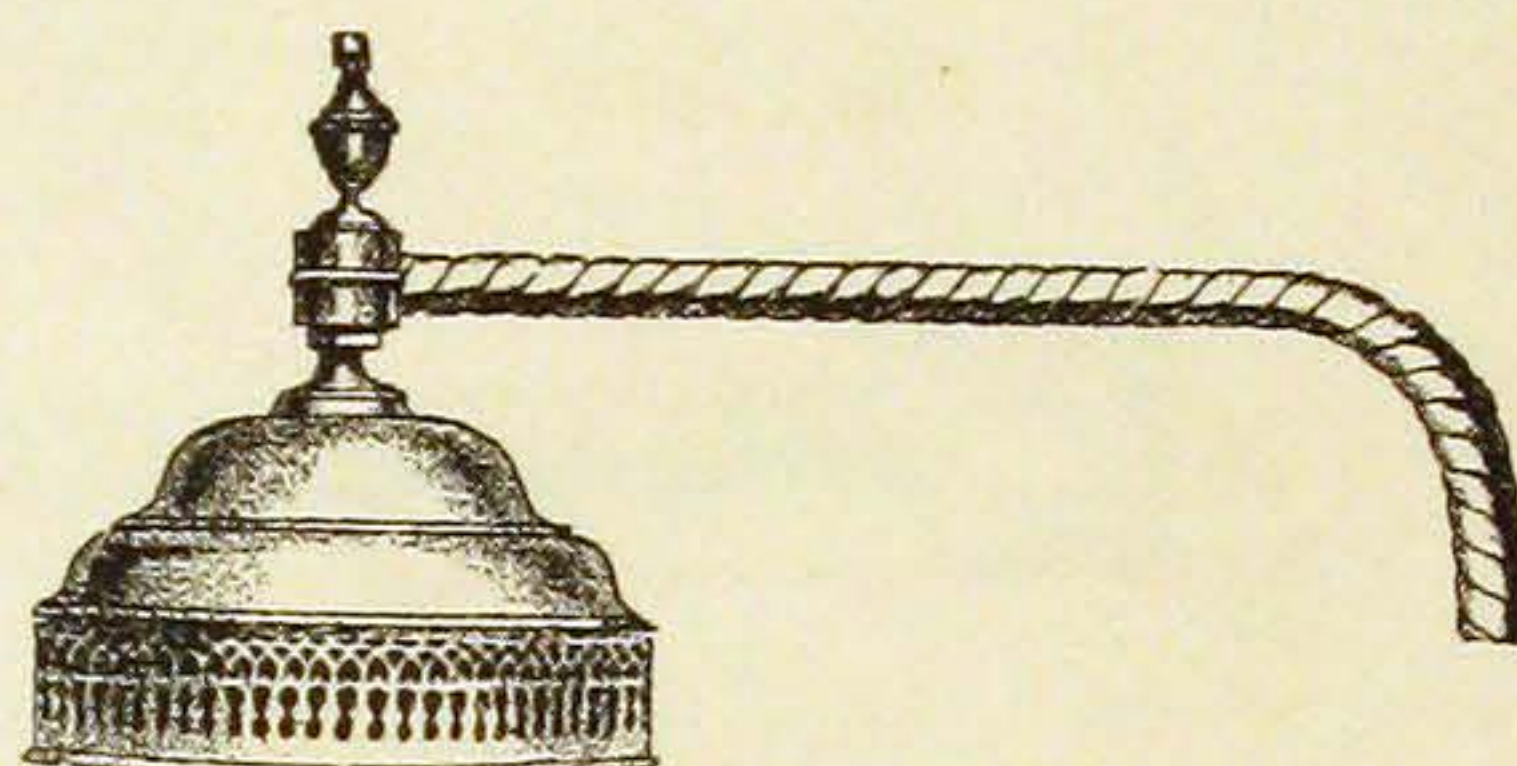
**Fig. 1014.**



No. 1.

Fancy.

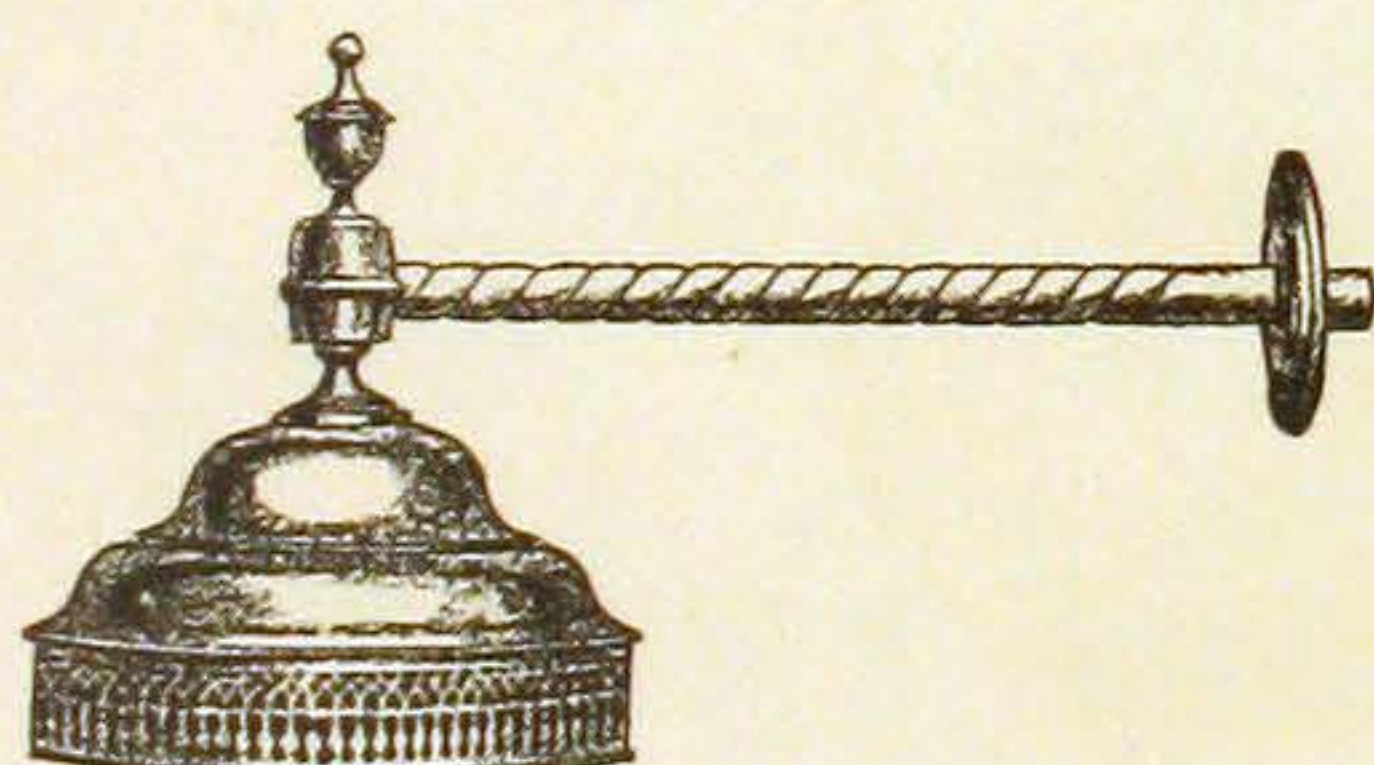
**Fig. 1015.**



No. 2.

Fancy,  
With Flange and Thimble.

**Fig. 1016.**



No. 3.

Tubular.

**Fig. 1017.**

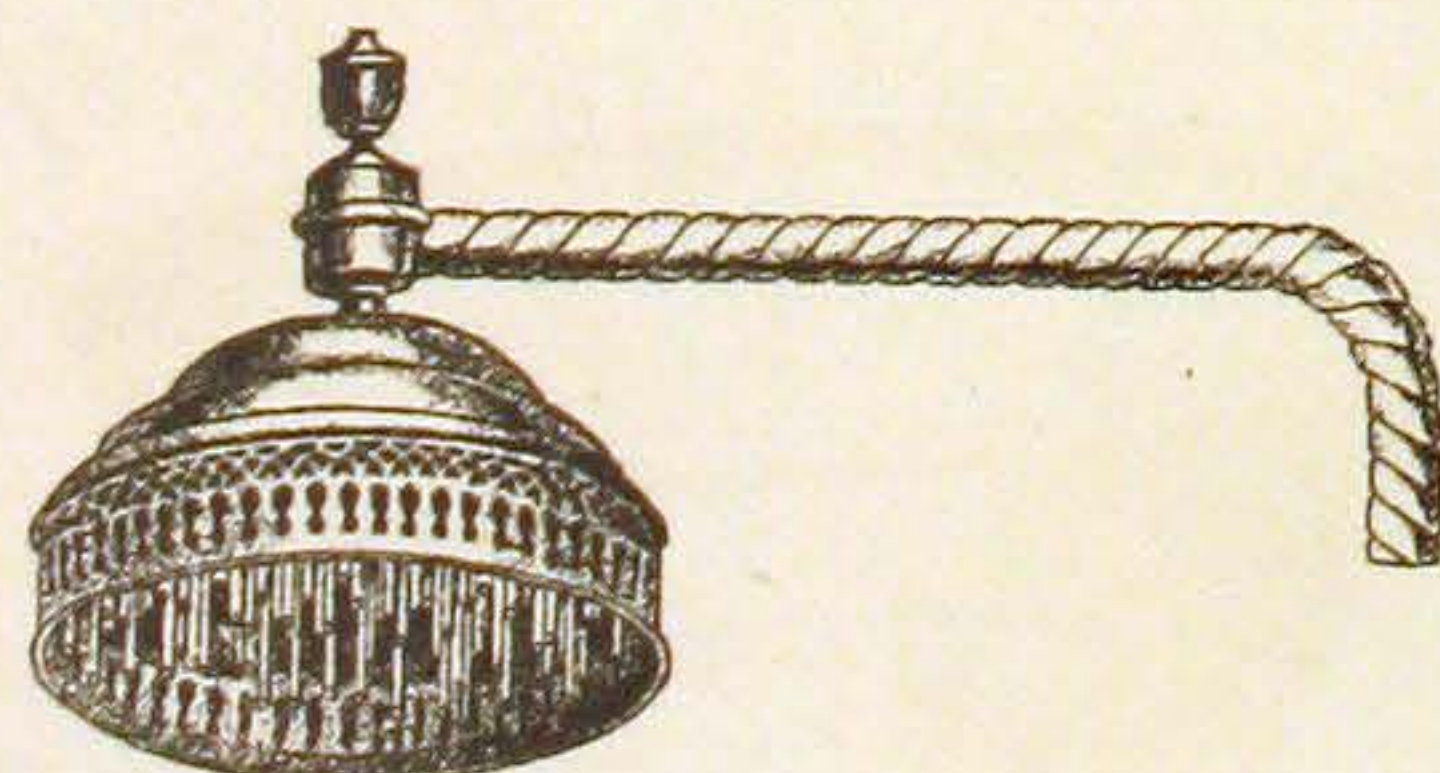


No. 4.

FANCY, TUBULAR.

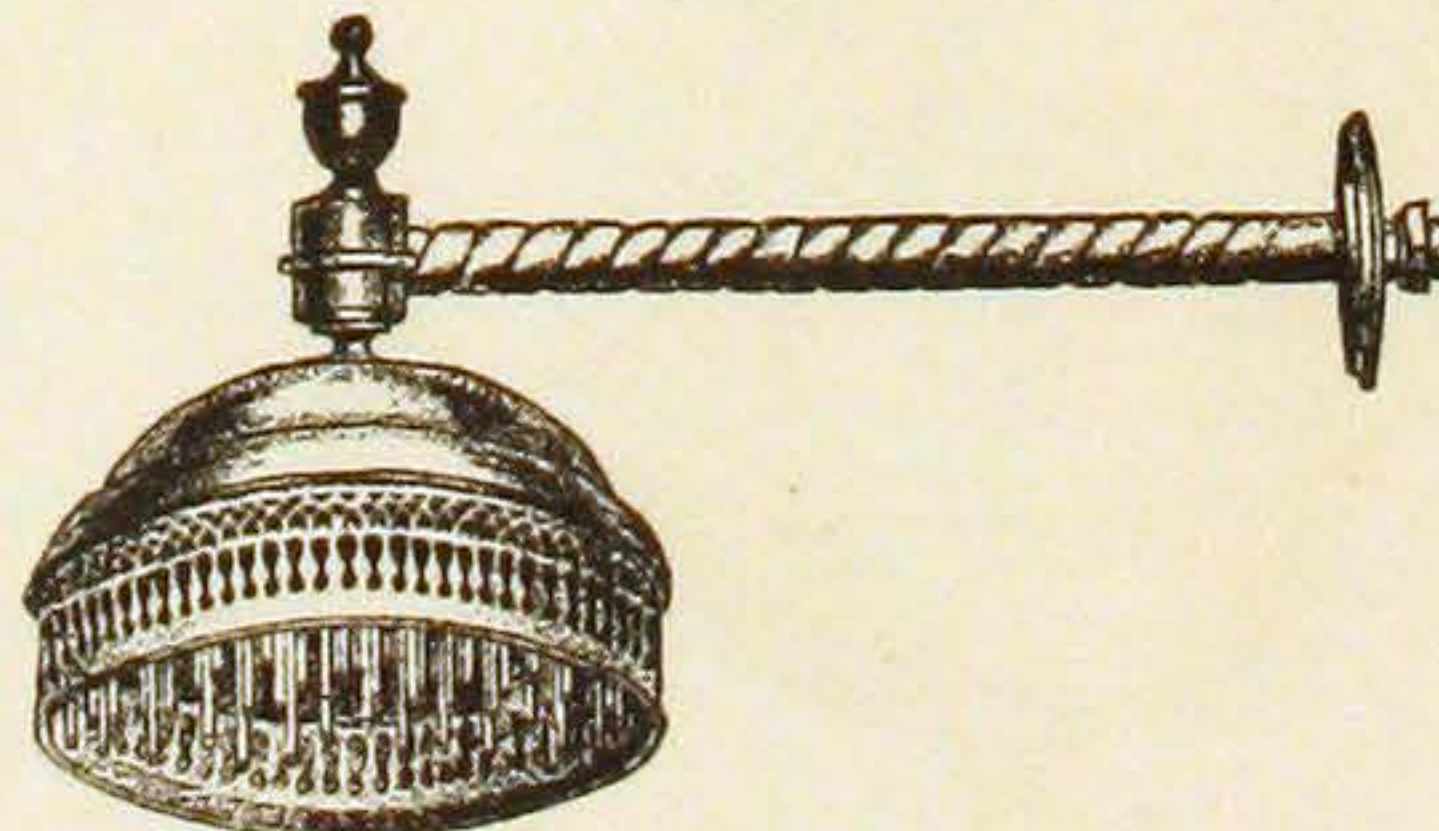
With Flange and Thimble.

**Fig. 1018.**



No. 5.

**Fig. 1019.**

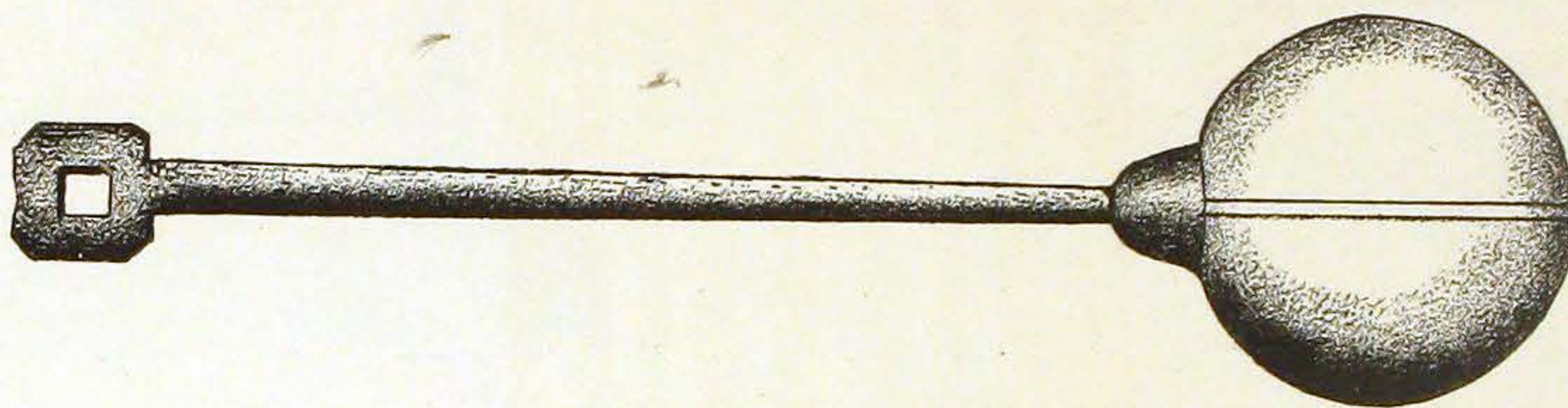


No. 6.



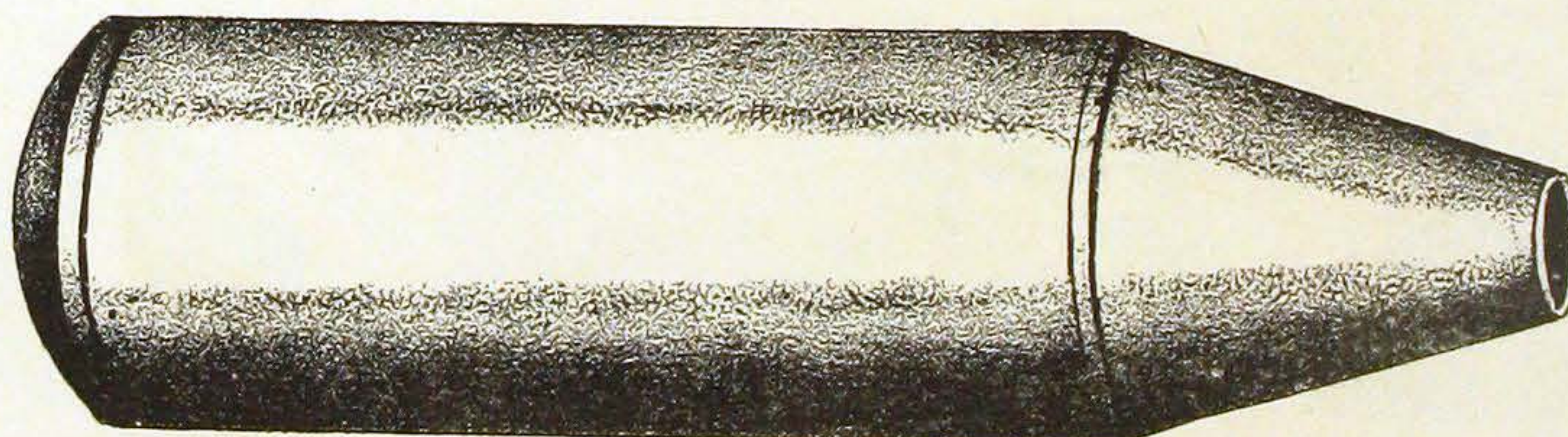
## COPPER BALL.

Fig. 1020.



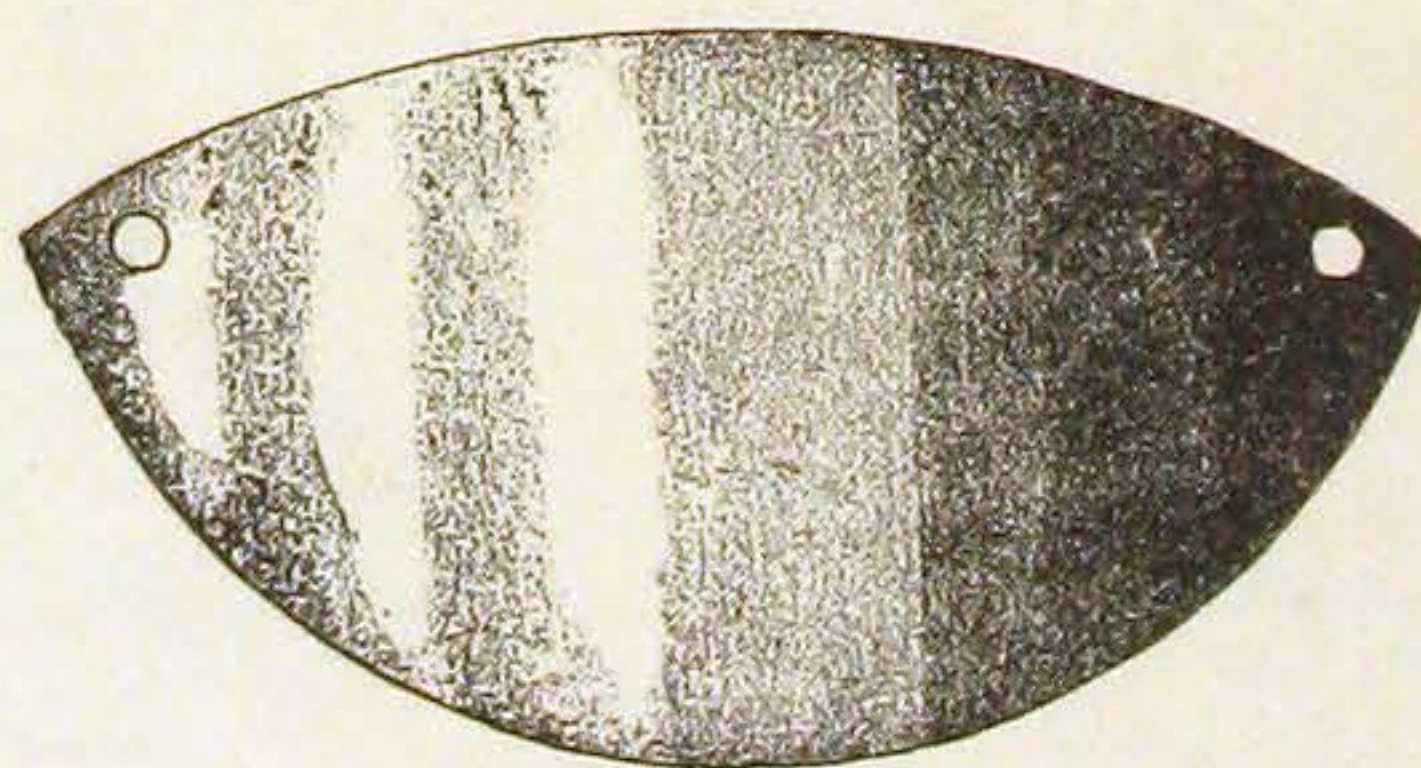
## COPPER AIR CHAMBER.

Fig. 1021.



## COPPER CLOSET FAN.

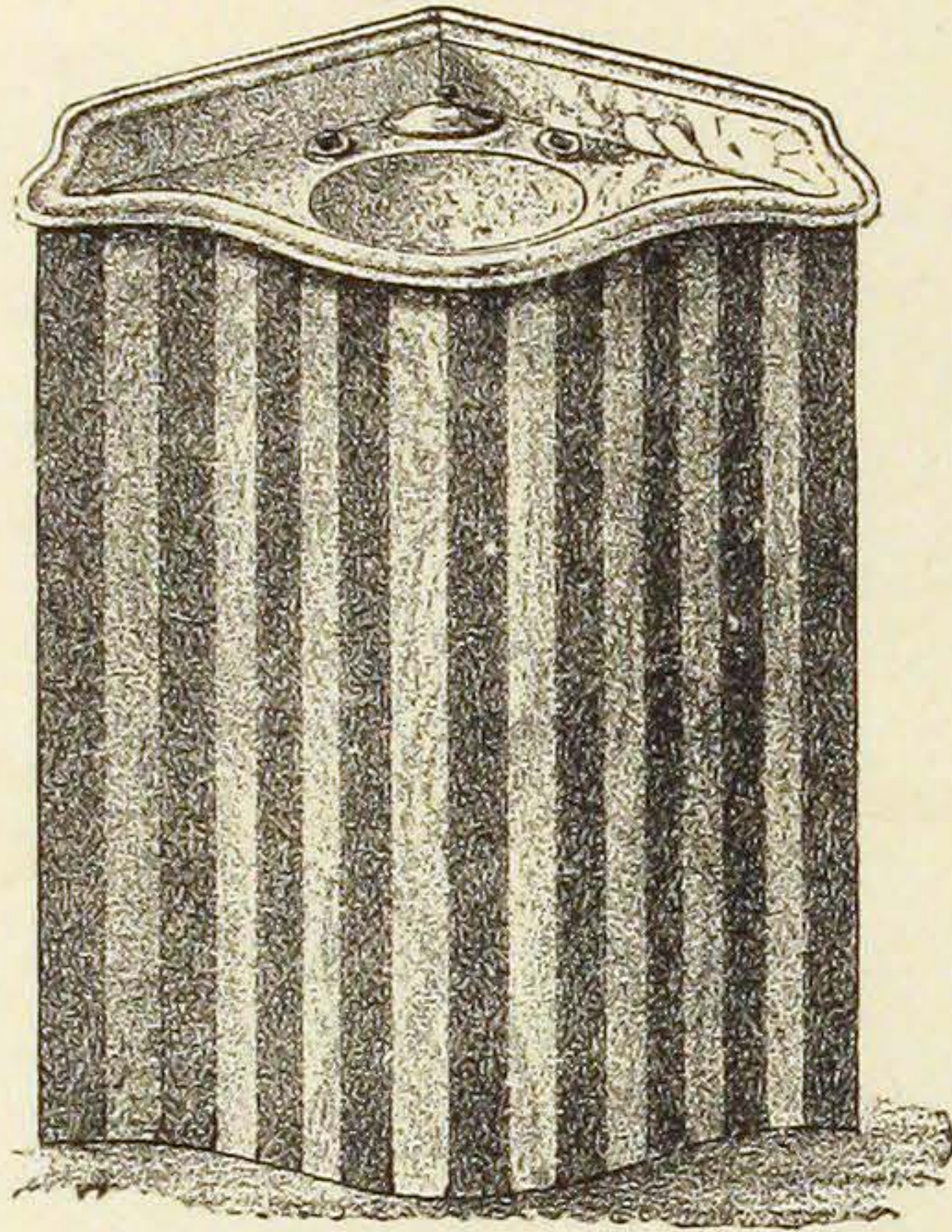
Fig. 1022.





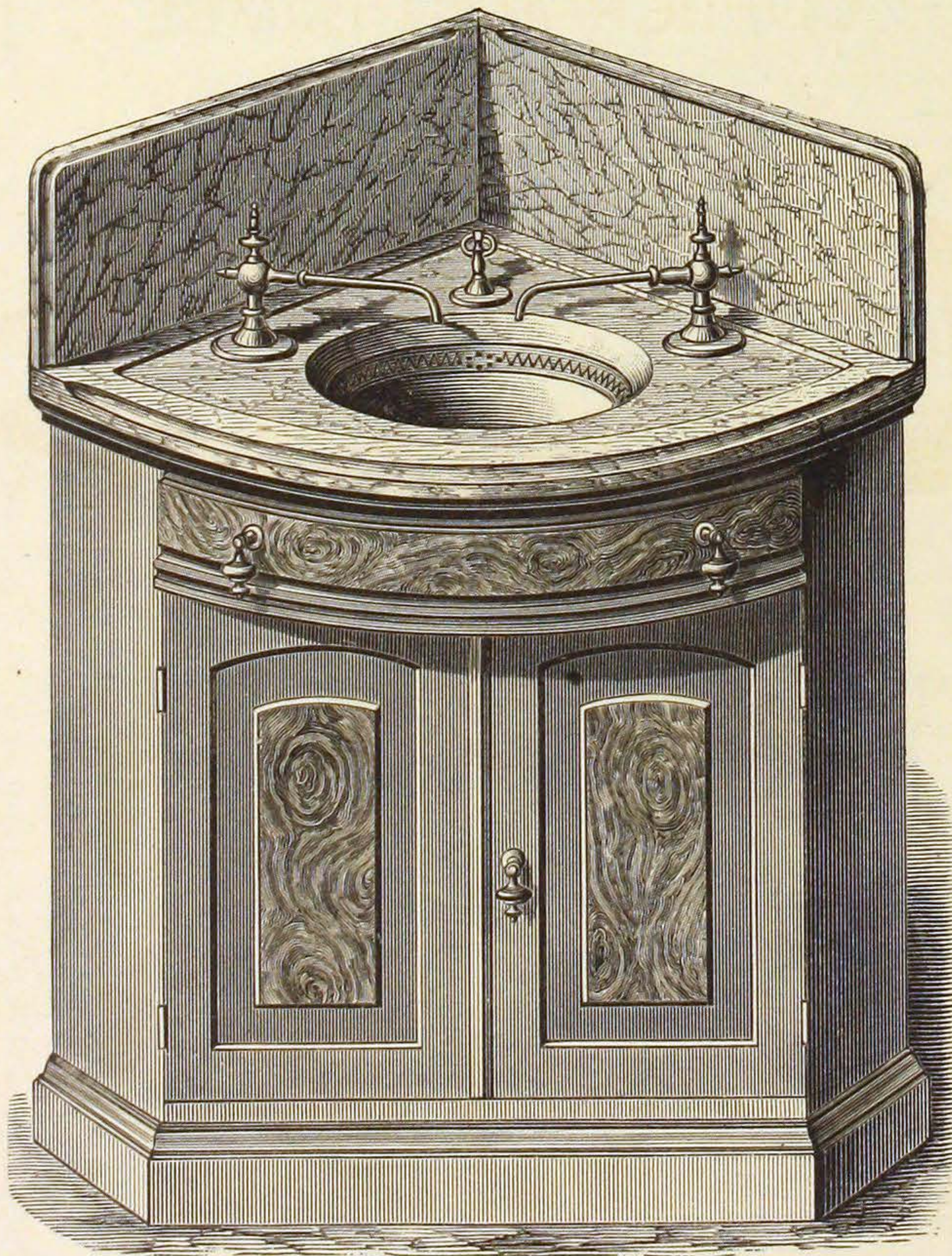
# CORNER WASH STANDS.

**Fig. 1023.**



Made of Black Walnut and Ash ; fits No. 7 Slab and Basin.

**Fig. 1024.**

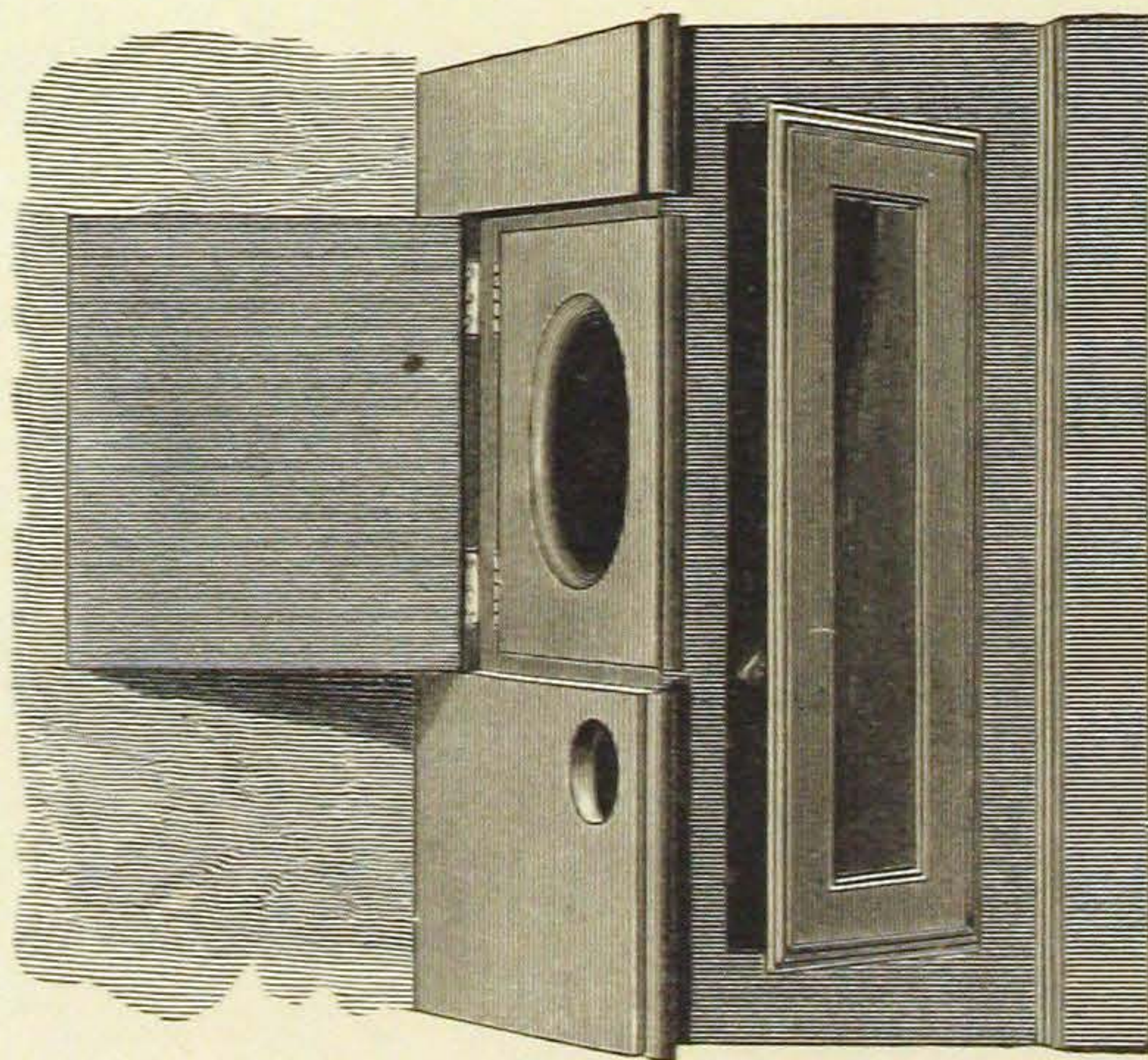


With Veneered Panels and Two Doors ; made for 22 or 24 inch Marble Slab, same as represented in cut, or for No. 1 Porcelain Slab and Basin.



# WATER CLOSET SEAT.

Fig. 1025.

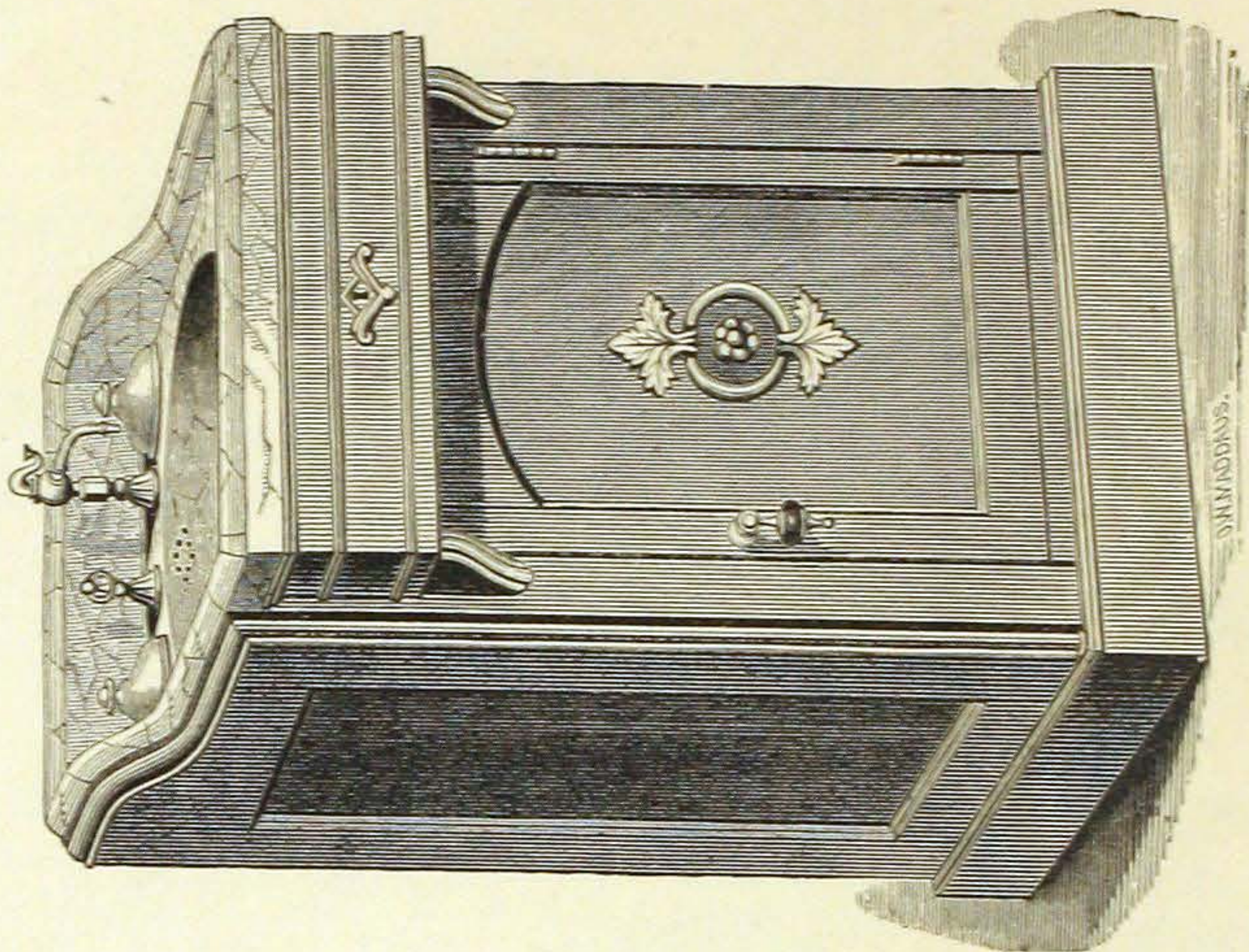


The above drawing shows a Water Closet Seat and Front, to be used in a recess.

Size, 30 to 36 inches wide.

# NO. 0, WASH STAND.

Fig. 1026.



For Nos. 3 and 4 Porcelain Slab and Basin, with Plain Panels,  
One Door, No Drawers.

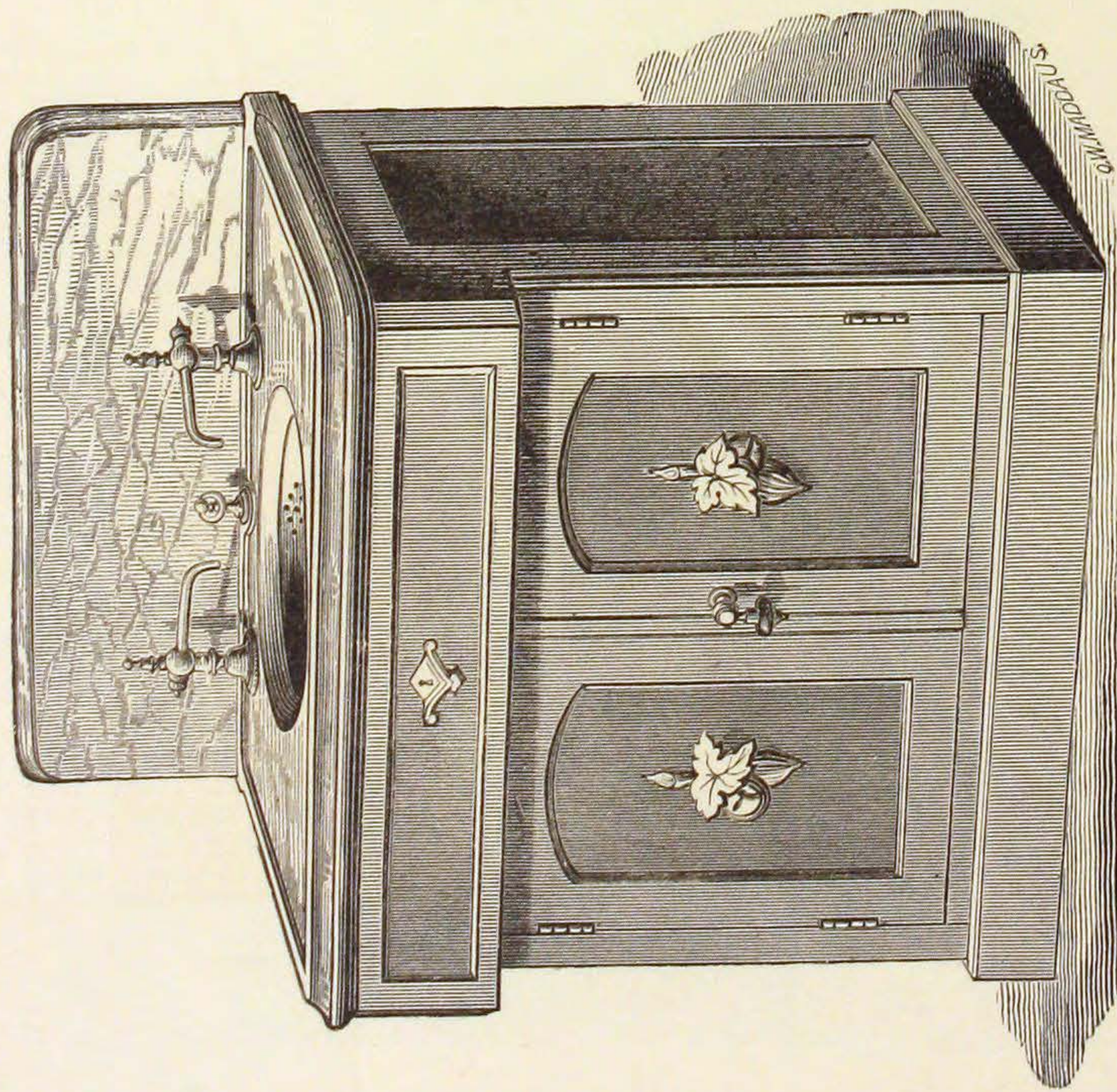
This makes a very neat and compact Wash Stand, particularly desirable where space is to be economized.

Size of Stand for No. 3 Slab,	20 x 19 inches.
Size of Stand for No. 4 Slab,	26 x 18 inches.



# NO. 1, WASH STAND.

Fig. 1027.

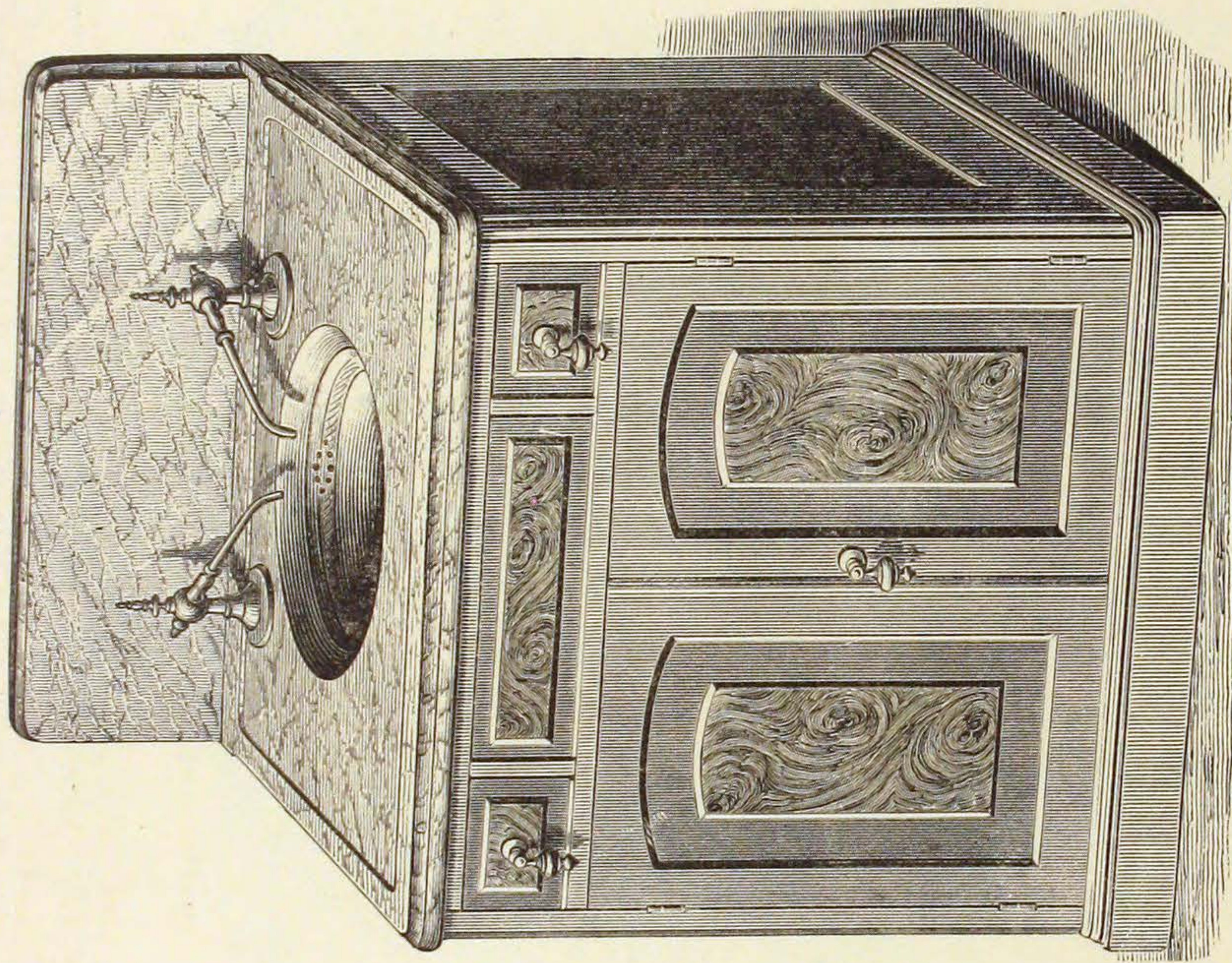


**For Marble Slab, Plain Panels, Two Doors, No Drawers.**

This is designed as a cheap Stand for Marble Slab.  
Ordinary sizes made for 27 x 20 in. or 30 x 20 in. Marble Slabs.  
Other sizes made to order.

# NO. 2, WASH STAND.

Fig. 1028.



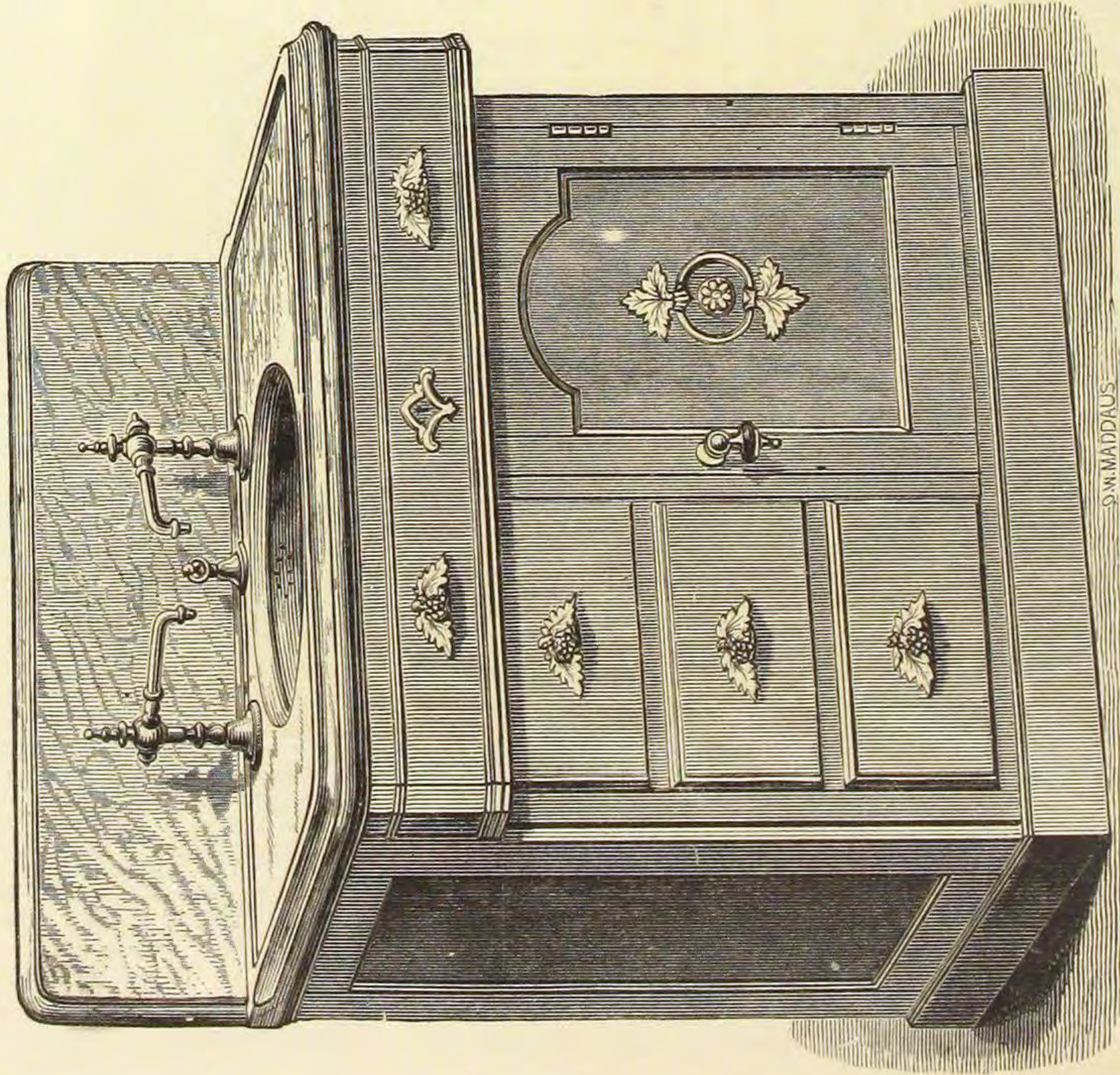
**Veneered Panels, Two Doors and Two Drawers.**

A very serviceable Stand and much used. It has Two Drawers  
for toilet purposes directly under the Slab.  
Size of Slab, 30 x 20 inches.



## WASH STANDS.

Fig. 1029.



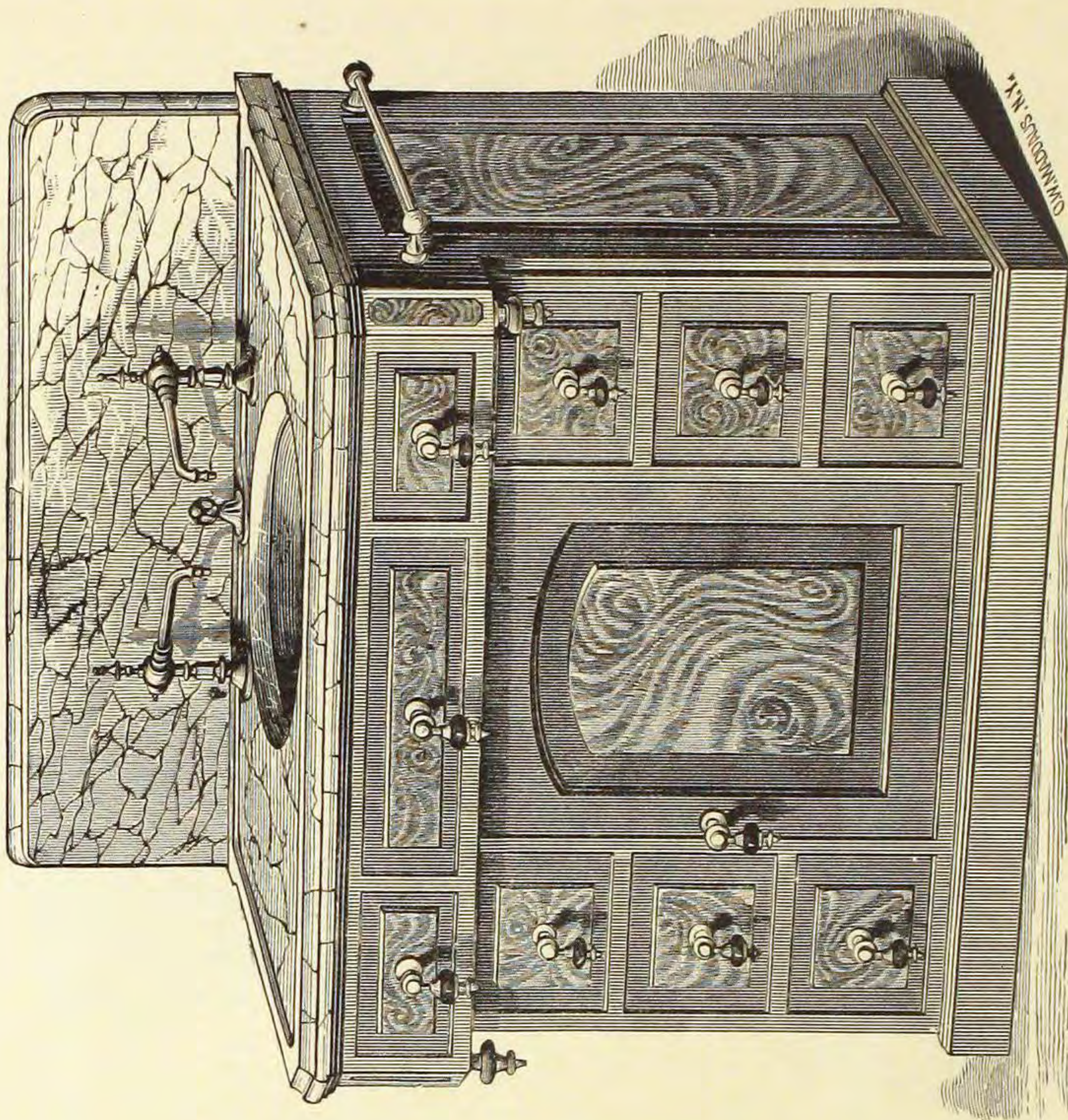
No. 3.

**With Plain Panels, One Door, and Two Drawers.**

The most popular Stand made, with Door on one side and Two Drawers, half the size of Stand, on the other. The Drawers can be used for putting in towels, besides the ordinary toilet articles.

We keep three sizes on hand, 27 x 20, 30 x 20 and 33 x 20 inches.

Fig. 1030.



No. 4.

**With Veneered Panels, One Door, Six Drawers, and Towel Racks on Sides.**

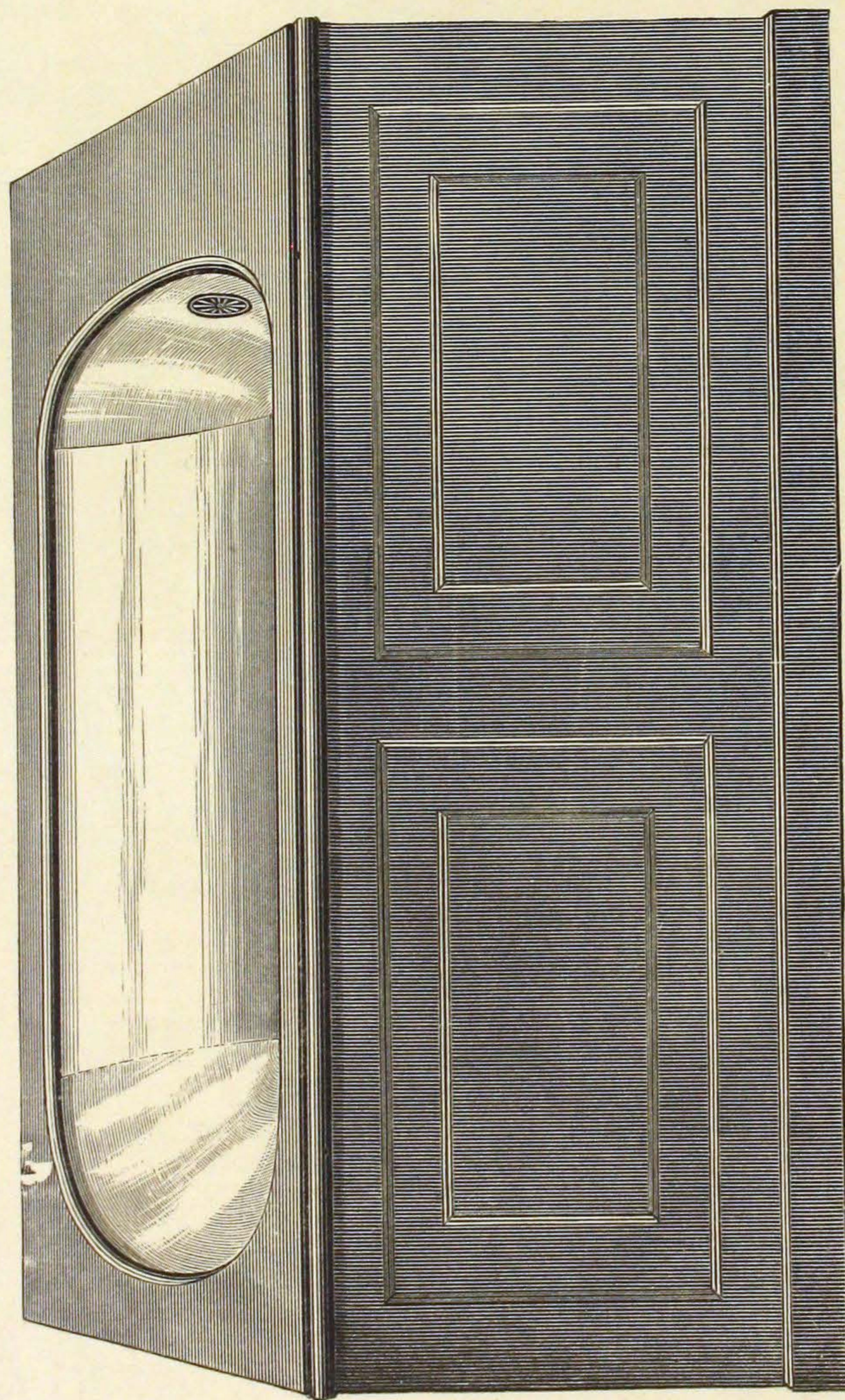
Very elegant and ornamental, as well as useful. It is provided with Three Drawers on each side of Door, large enough to hold everything pertaining to a Bath and Toilet Stand.

We keep two sizes on hand, 33 x 20 and 36 x 20 inches.



## FRONT AND COVER FOR BATH TUB.

Fig. 1031.



We make two sizes of these Fronts and Covers, for 4 ft. 6 in. or 6 ft. Bath Tubs.



MARBLE SLABS.  
COUNTERSUNK AND PLAIN.

Fig. 1032.

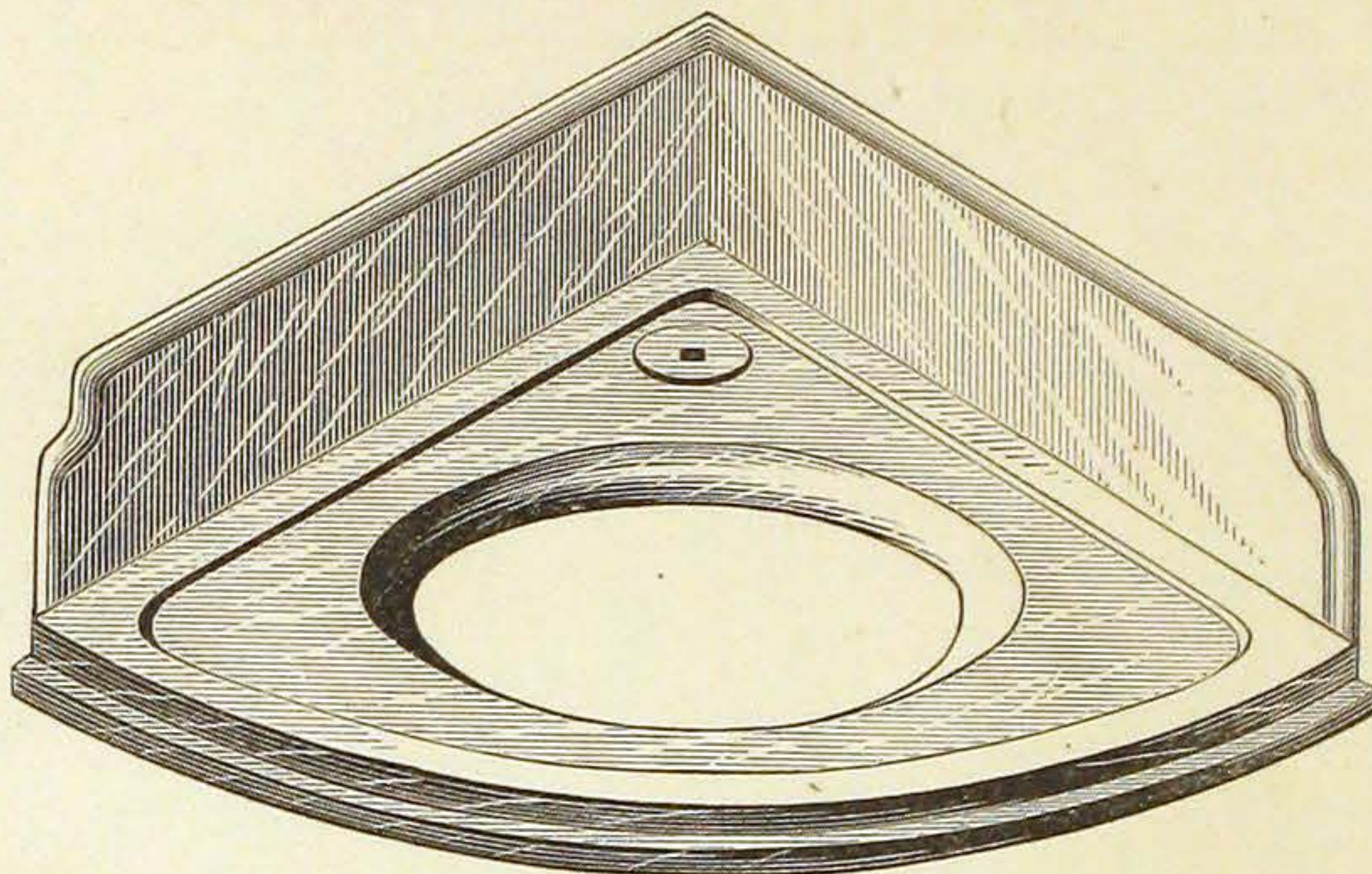


Fig. 1033.

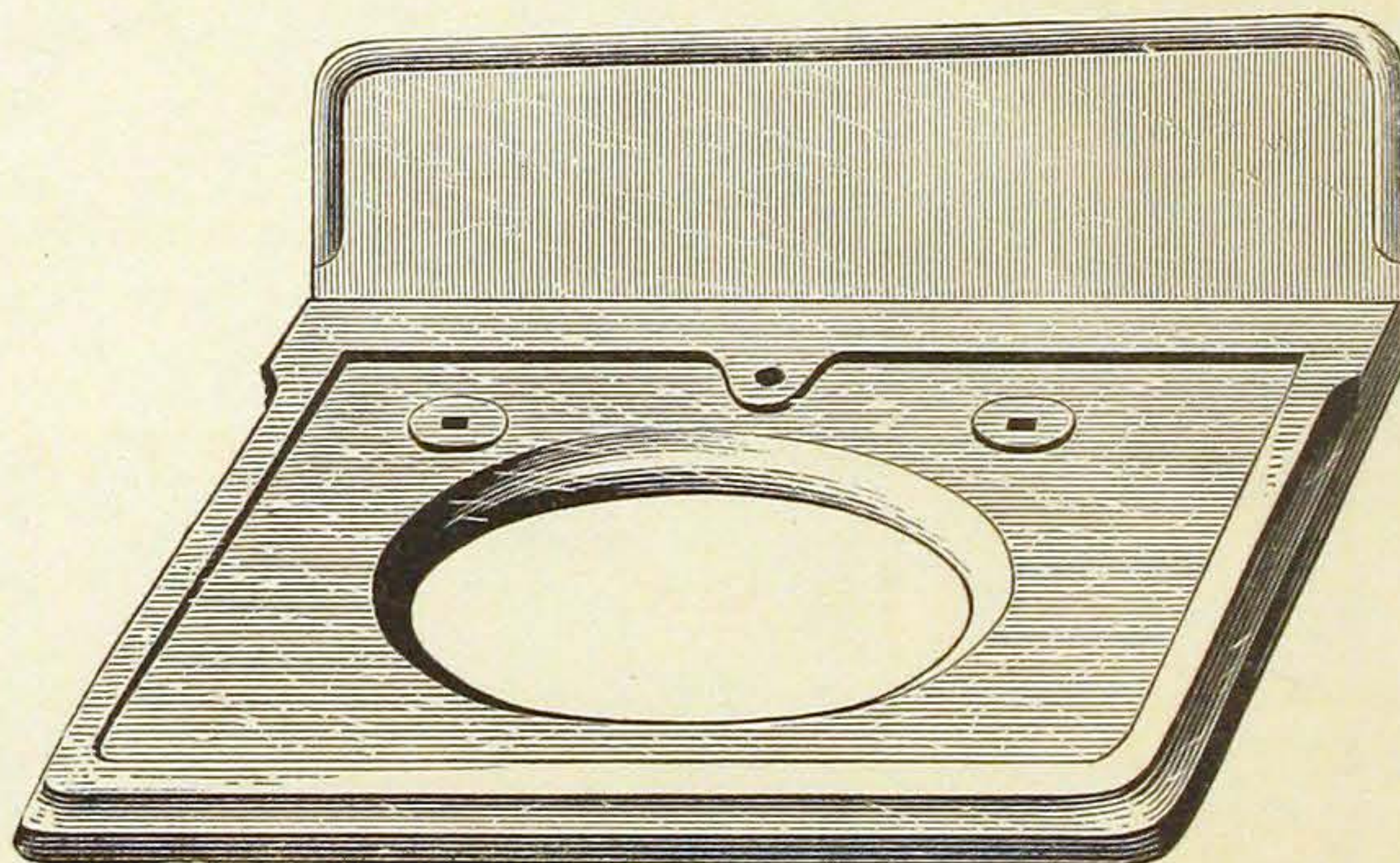
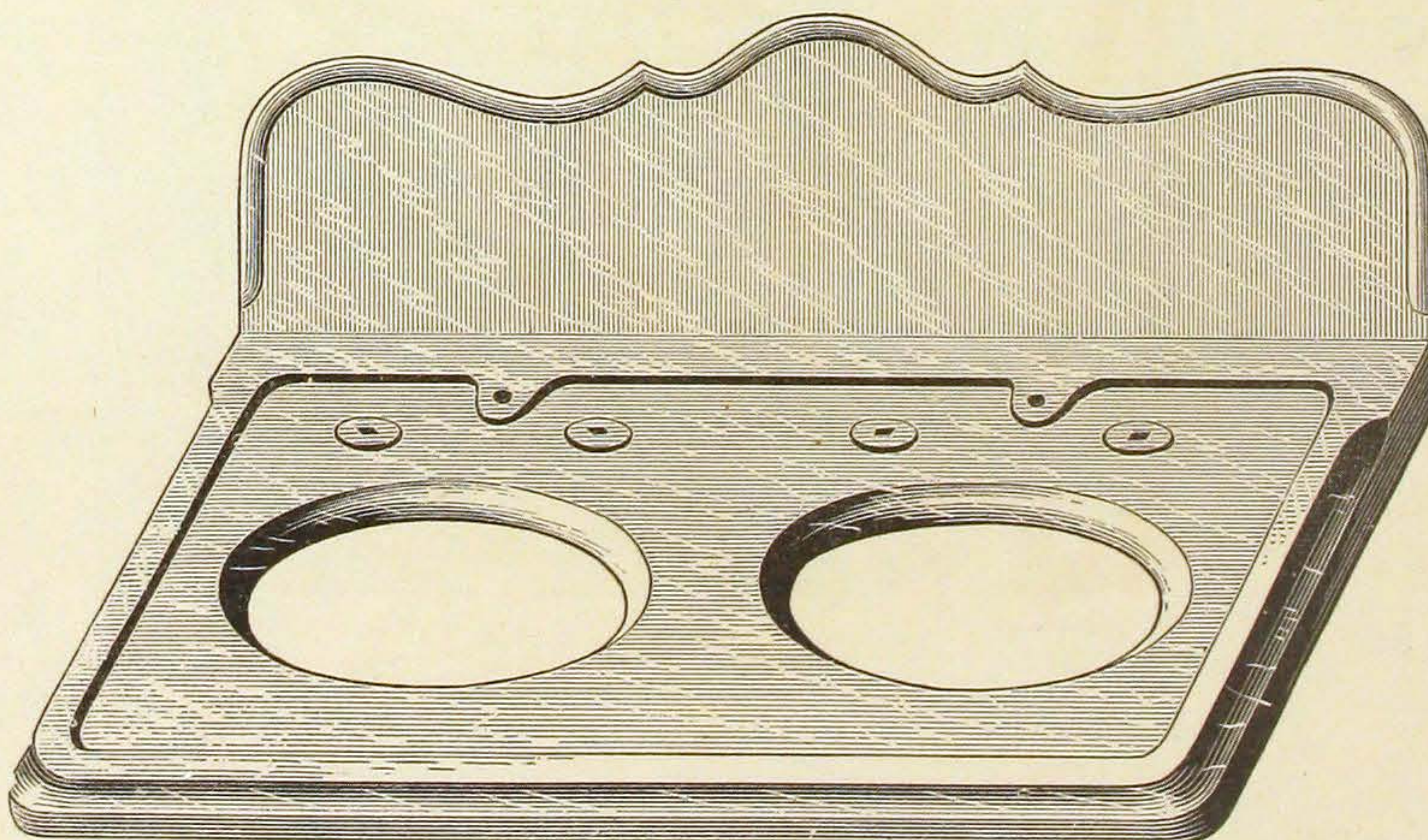


Fig. 1034.



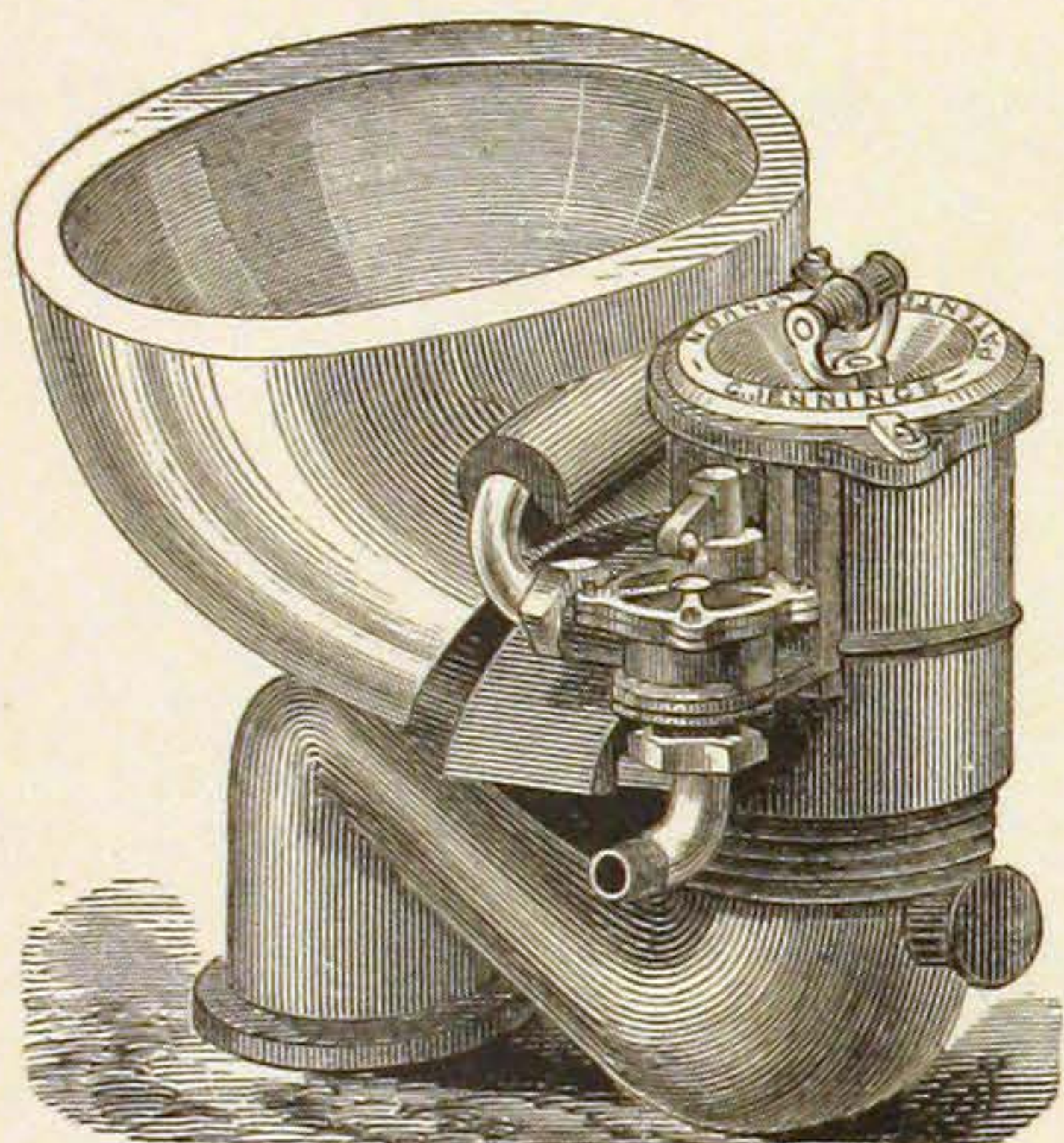
Italian and American.

When ordering, state the exact size ; if with back or without ; if one or two holes for Cocks ; and size of opening for Basin.



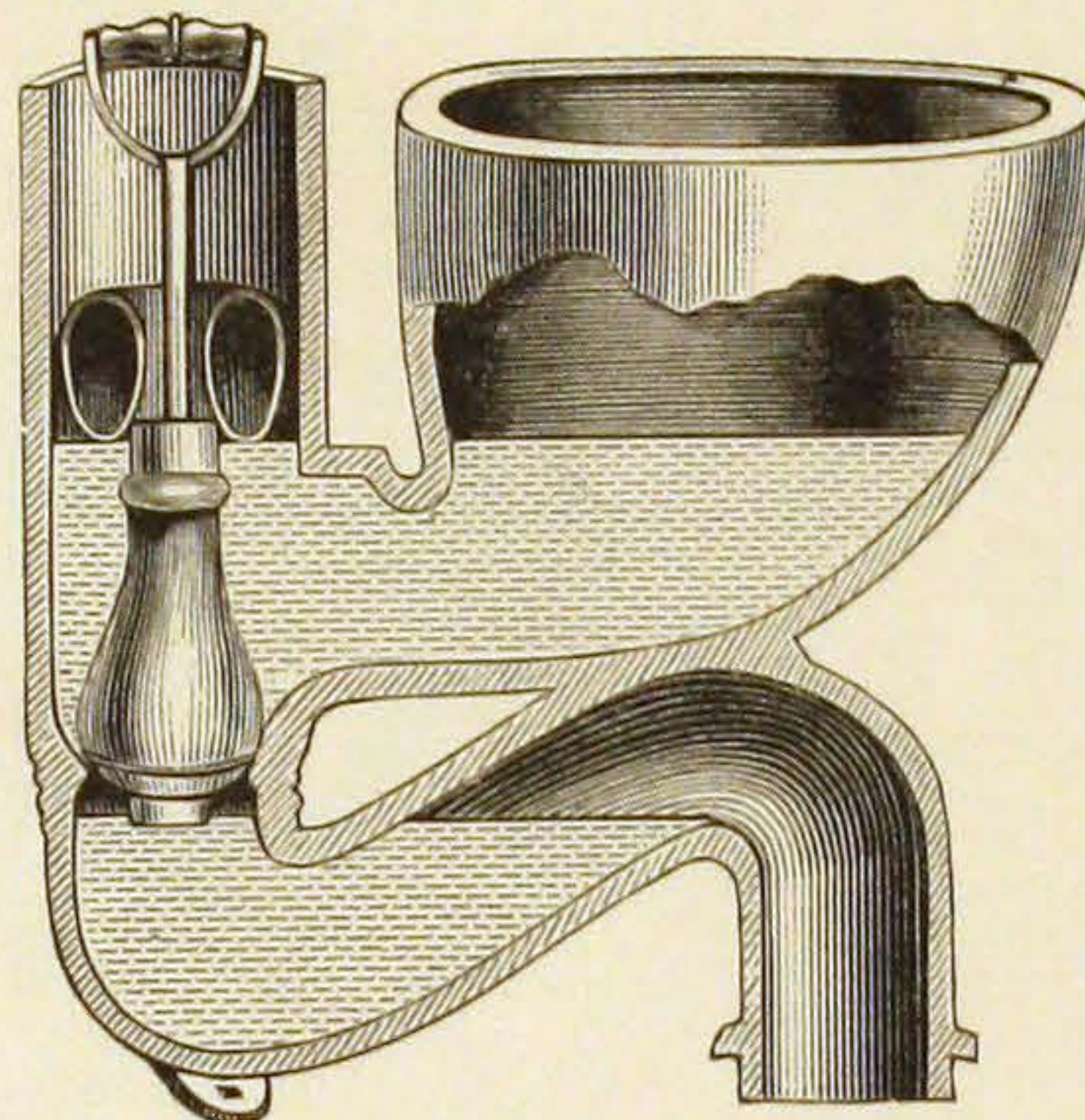
# WATER CLOSETS. THE JENNINGS' LONDON.

**Fig. 1035.**



Closet Complete.

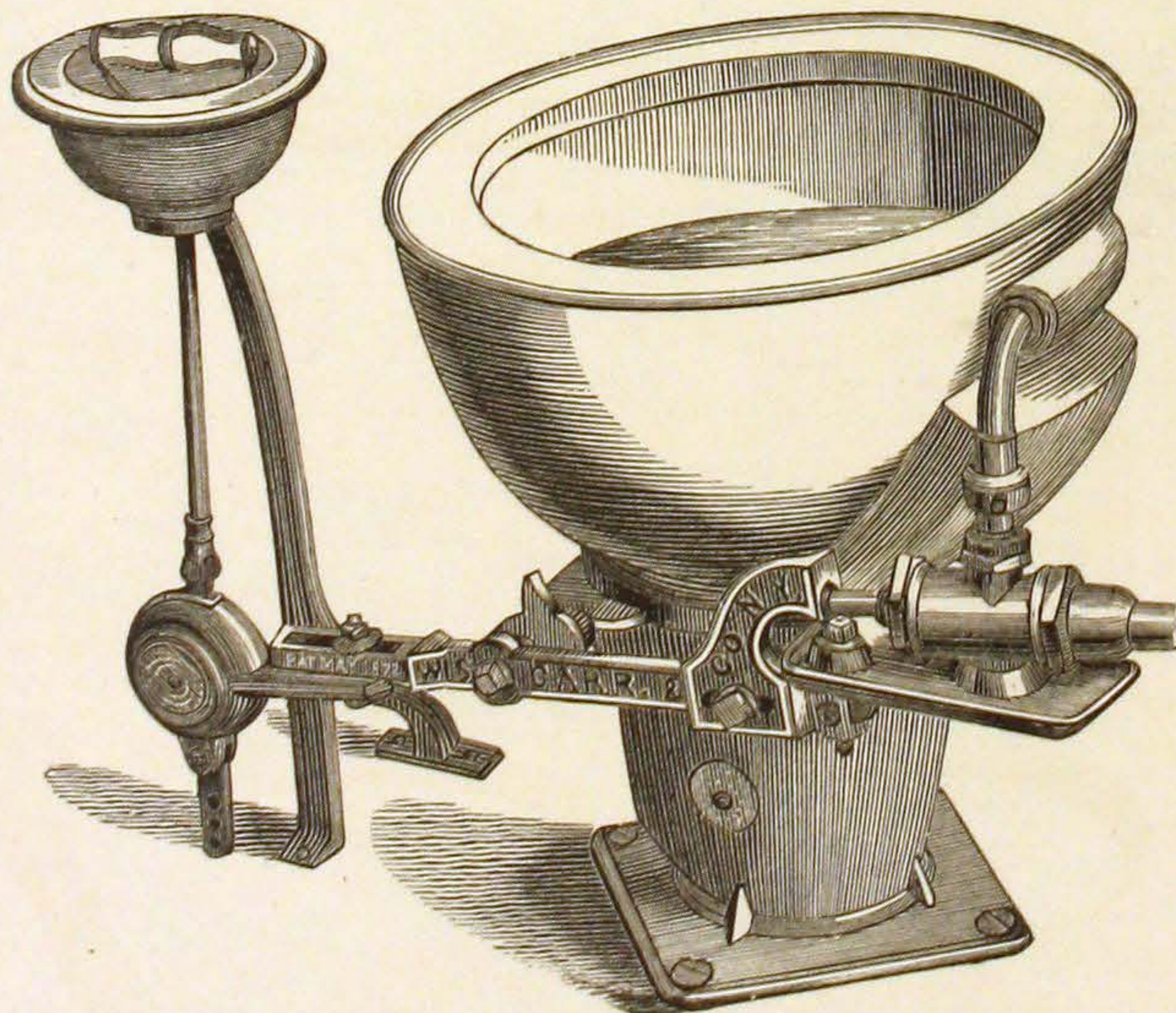
**Fig. 1036.**



Sectional View.

## CARR'S PATENT AMERICAN DEFIANCE.

**Fig. 1037.**

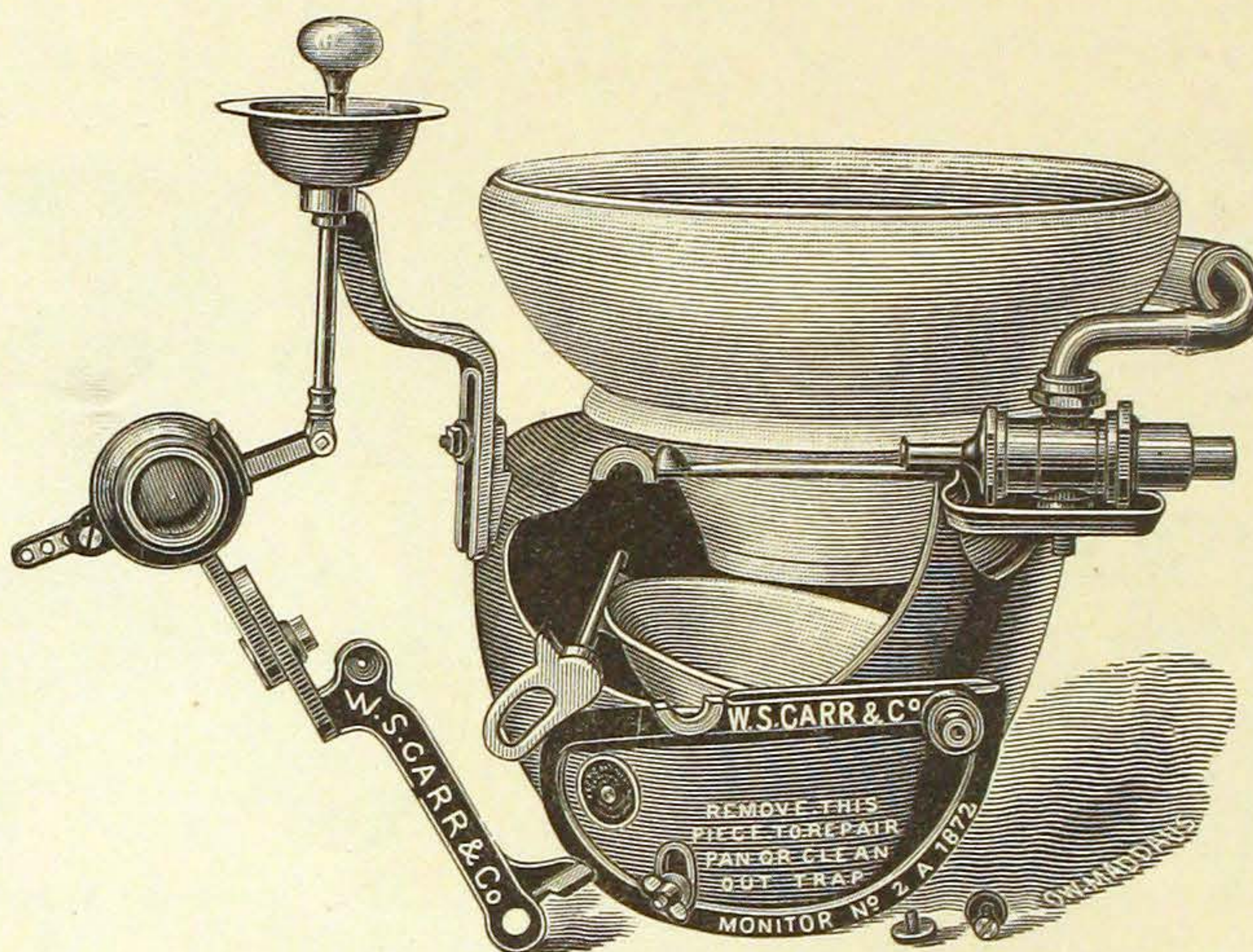


These Closets are expressly for First-Class Buildings (public or private) where cheapness is not the first consideration.



## VALVE WATER CLOSETS.

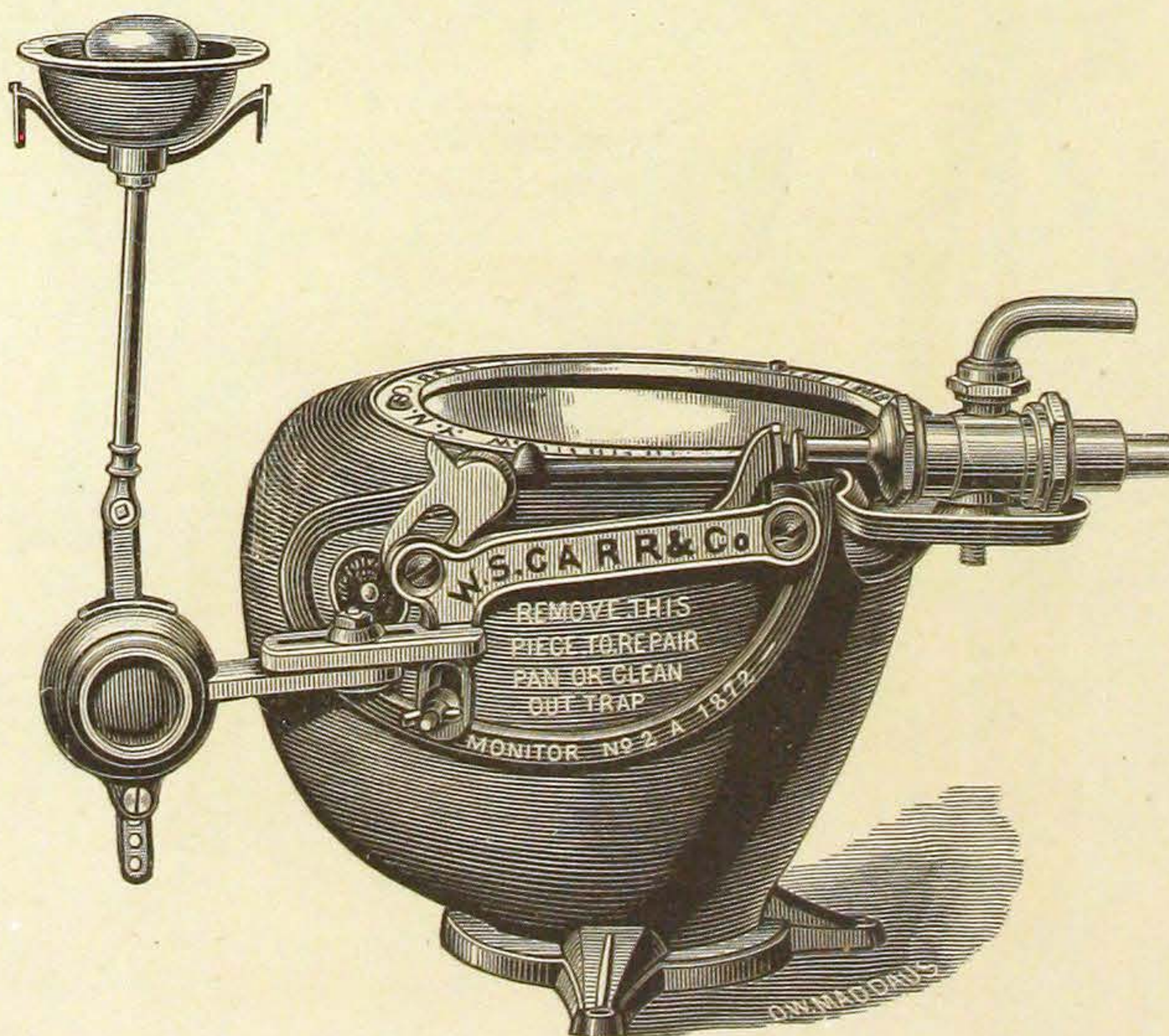
Fig. 1039.



Section of Closet.

## MONITOR.

Fig. 1040.

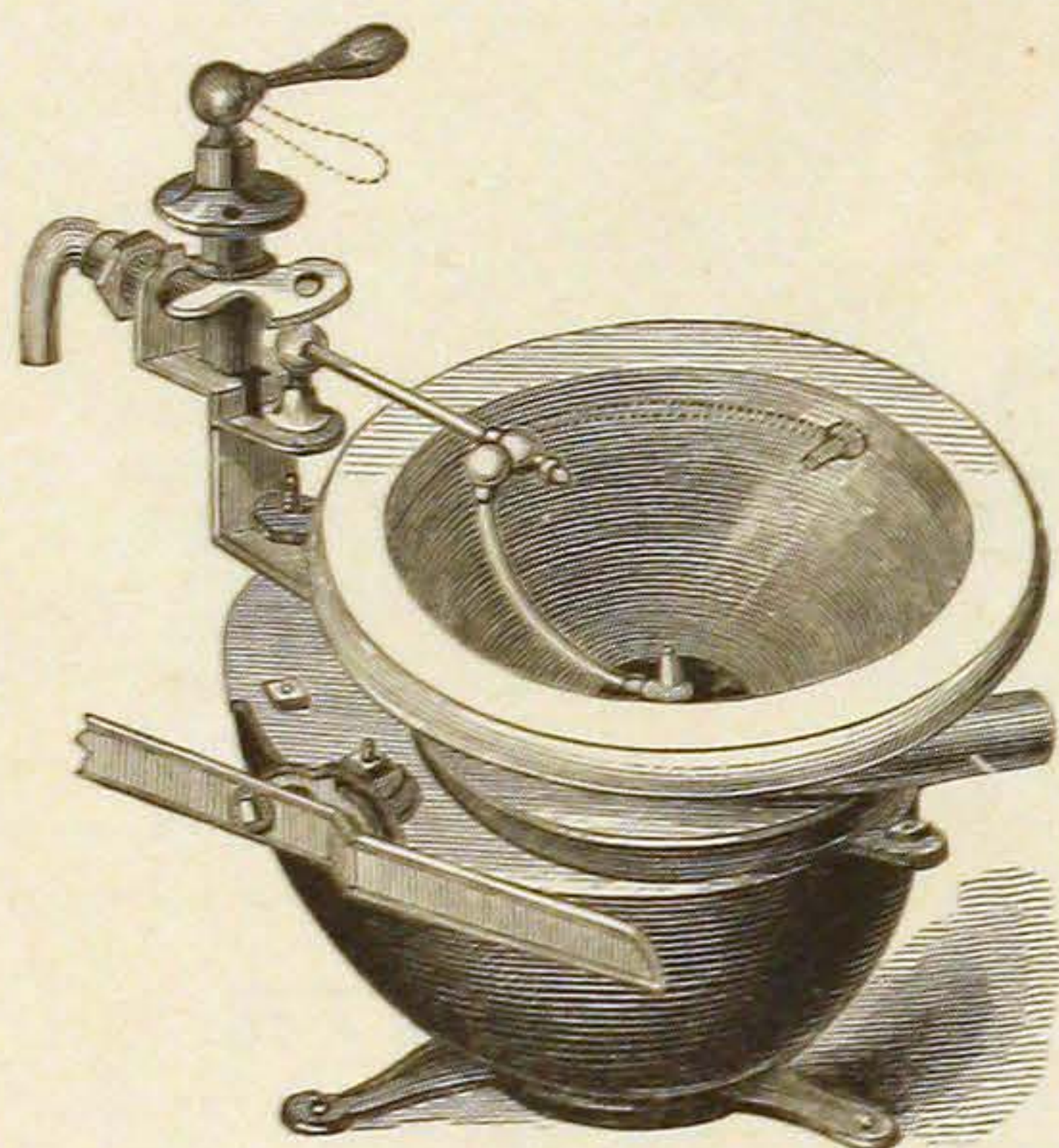


Brass and Plated Cup and Pull.



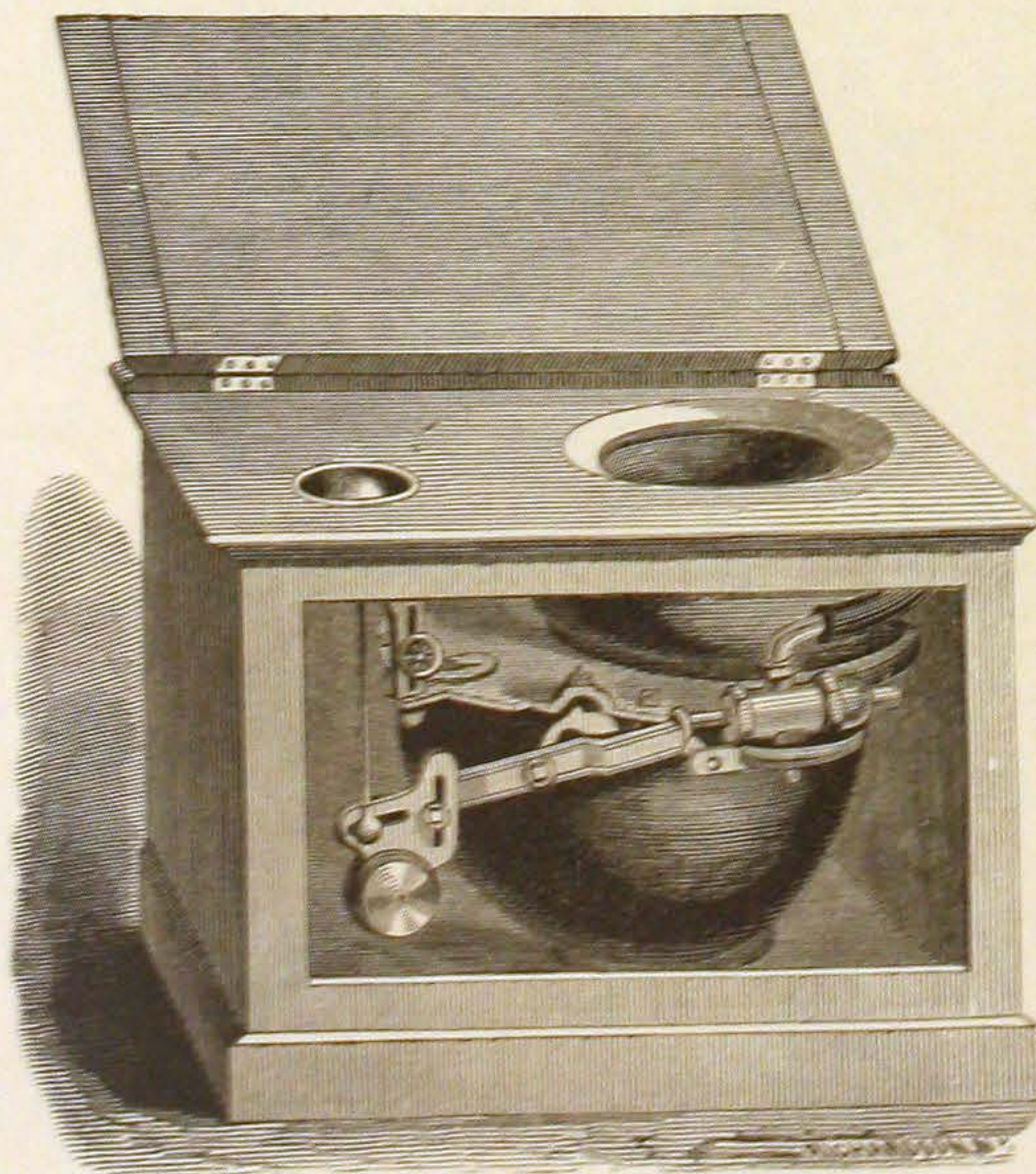
CLOSETS.  
WITH BIDET ATTACHMENT.

Fig. 1041.



CARR'S PATENT.

Fig. 1042.



Complete, in Black Walnut Case.



## BARTHOLOMEW'S PATENT VALVE CLOSET.

Fig. 1043.

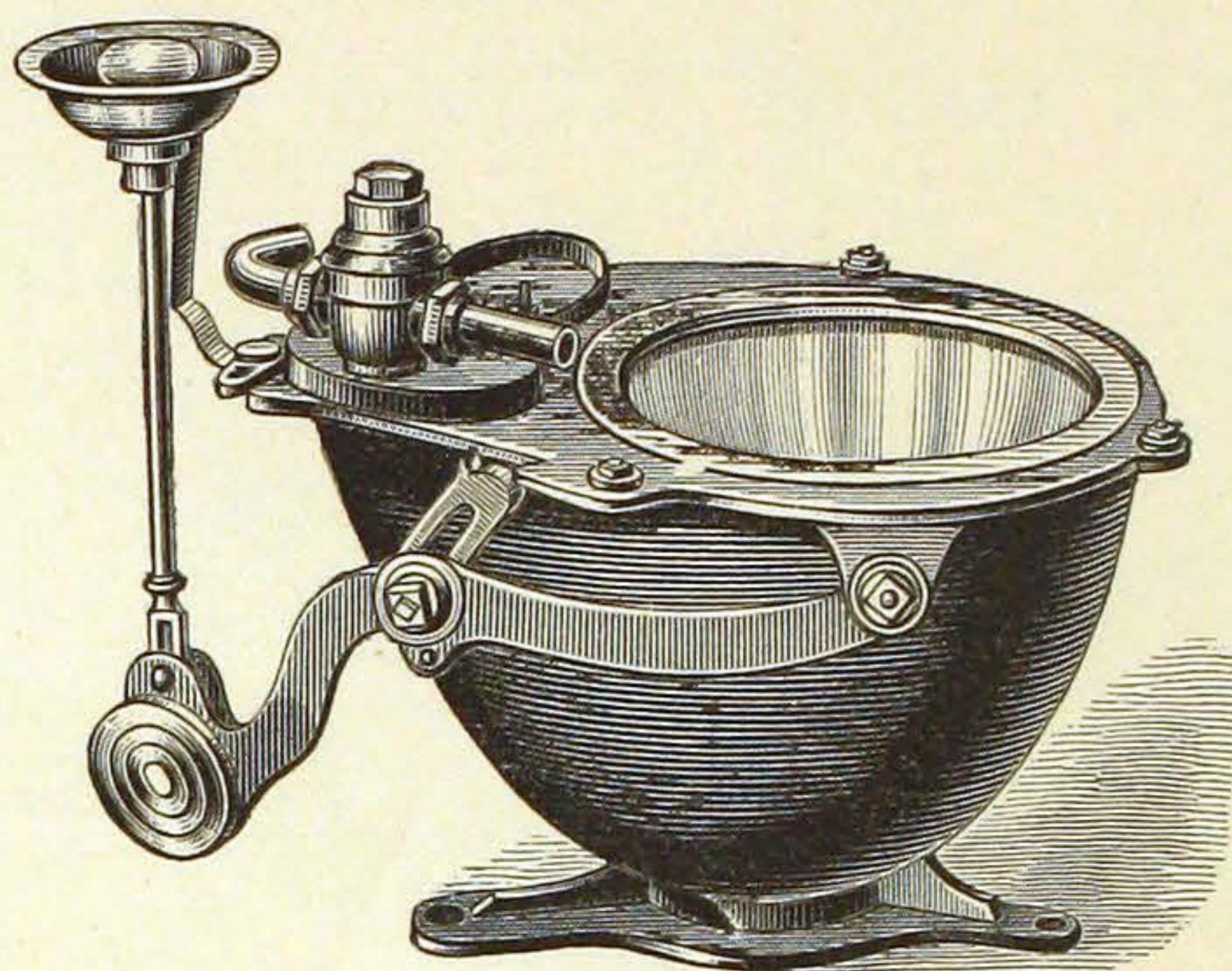
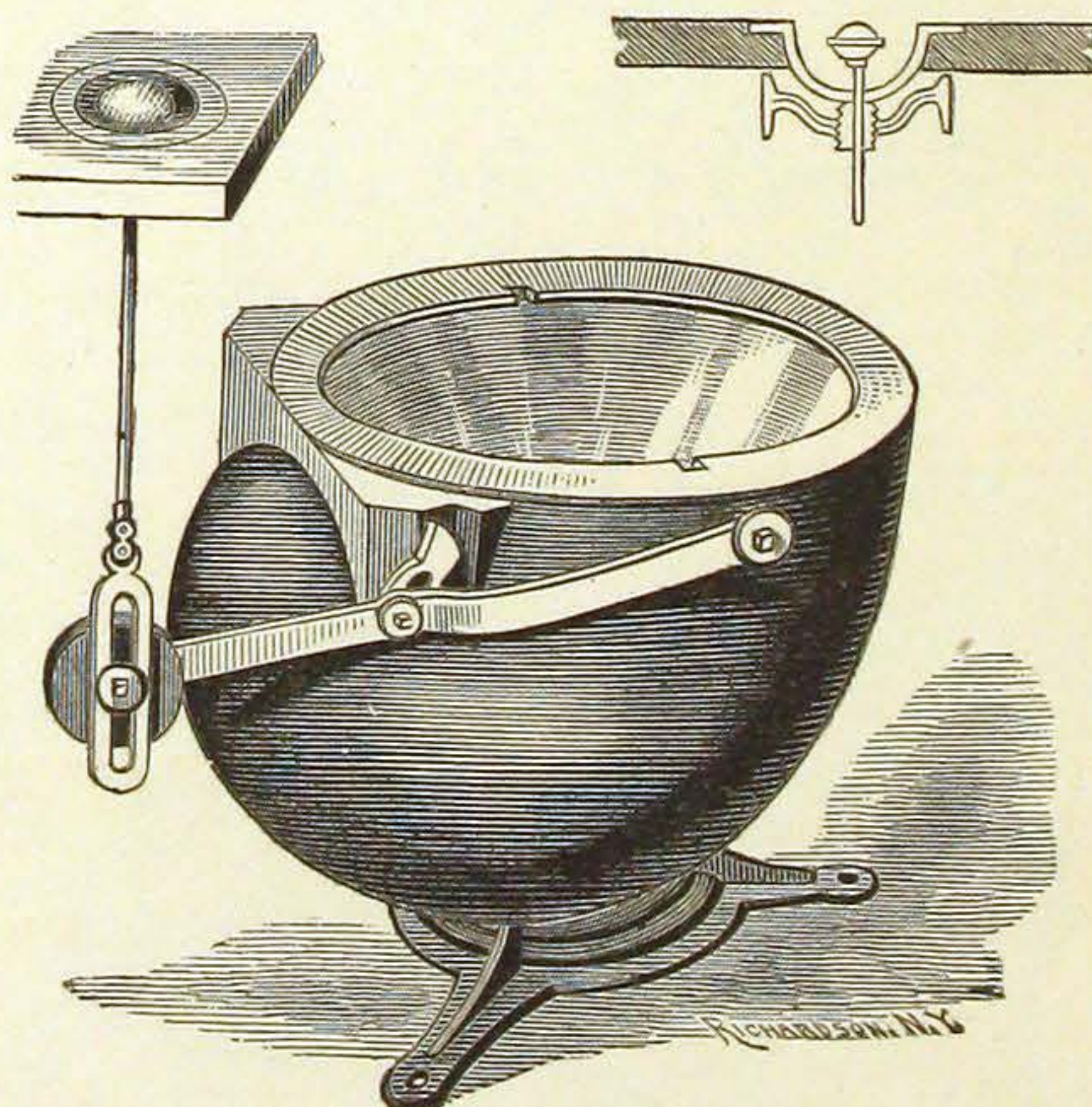
CISTERN CLOSET.  
COMPLETE.

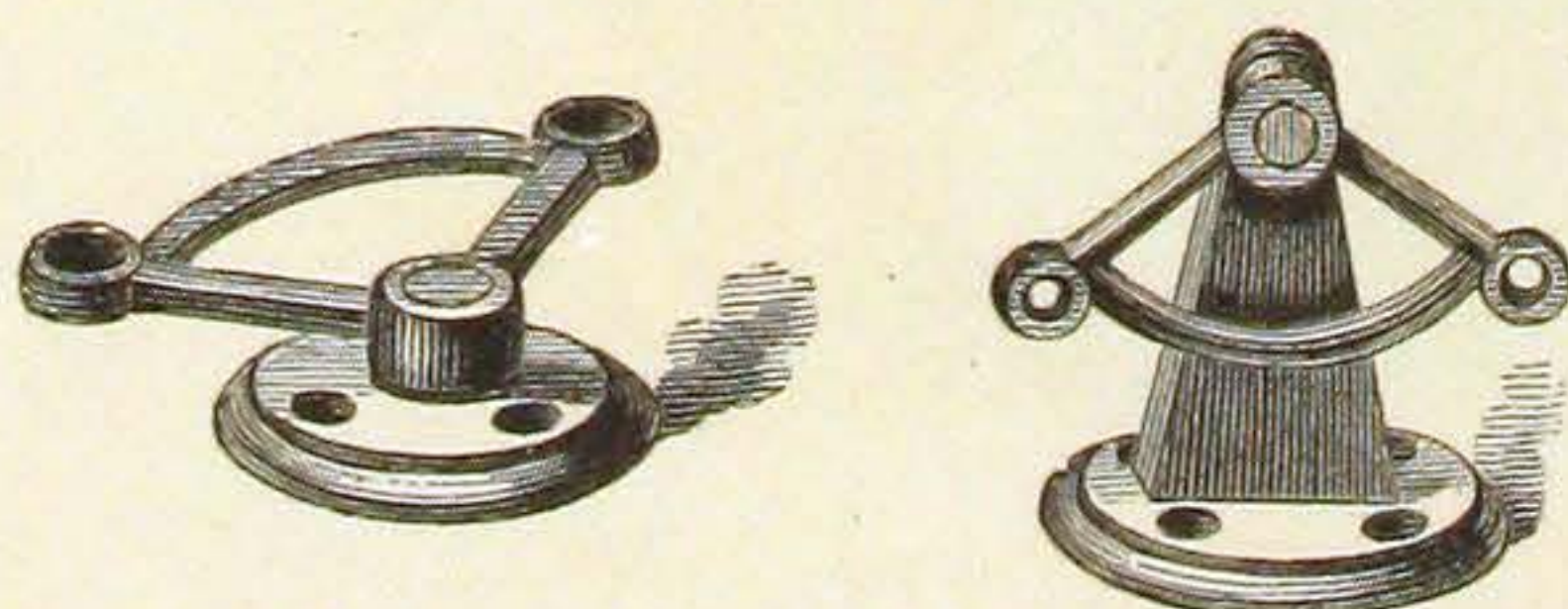
Fig. 1044.



Including 1 Valve, 1 Ball Lever and 2 Cranks.

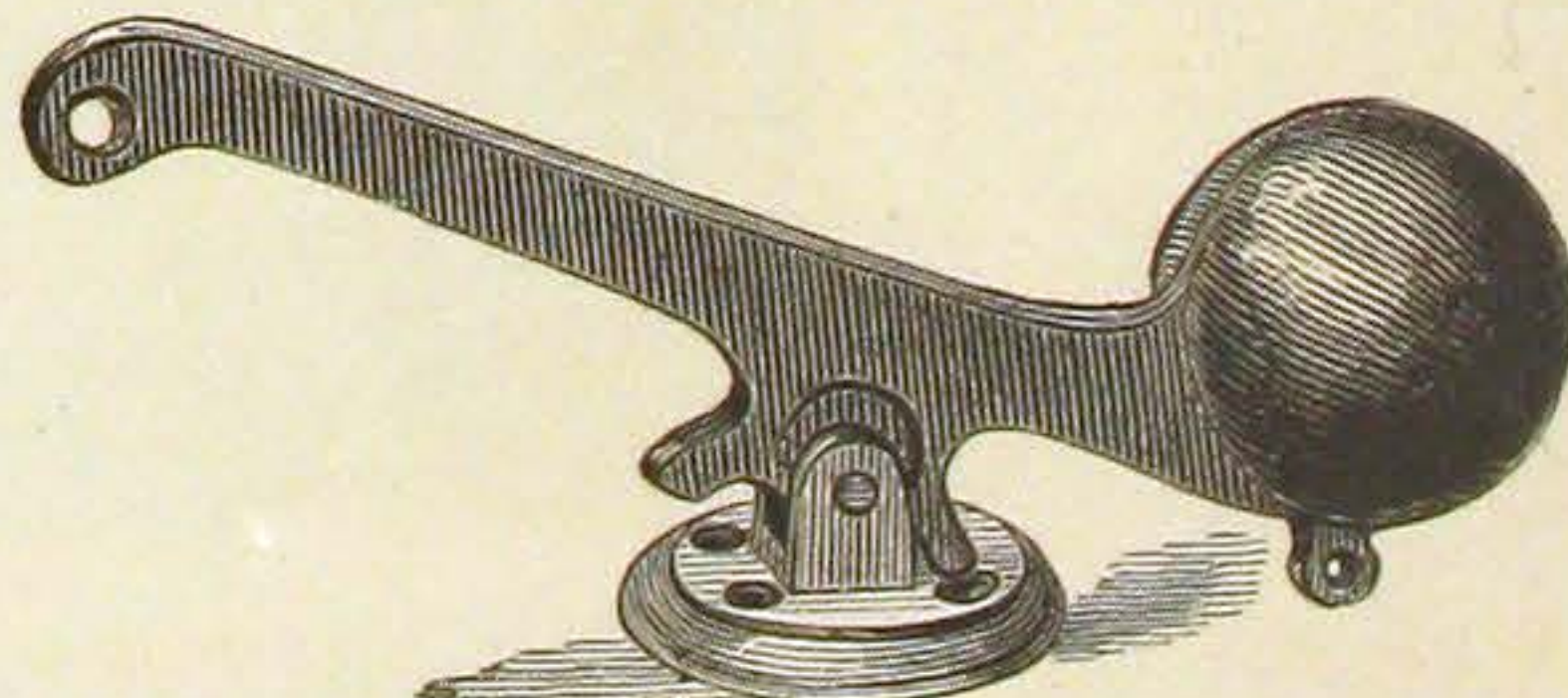
HORIZONTAL  
AND UPRIGHT CRANK.

Fig. 1045.



## BALL LEVER.

Fig. 1046.

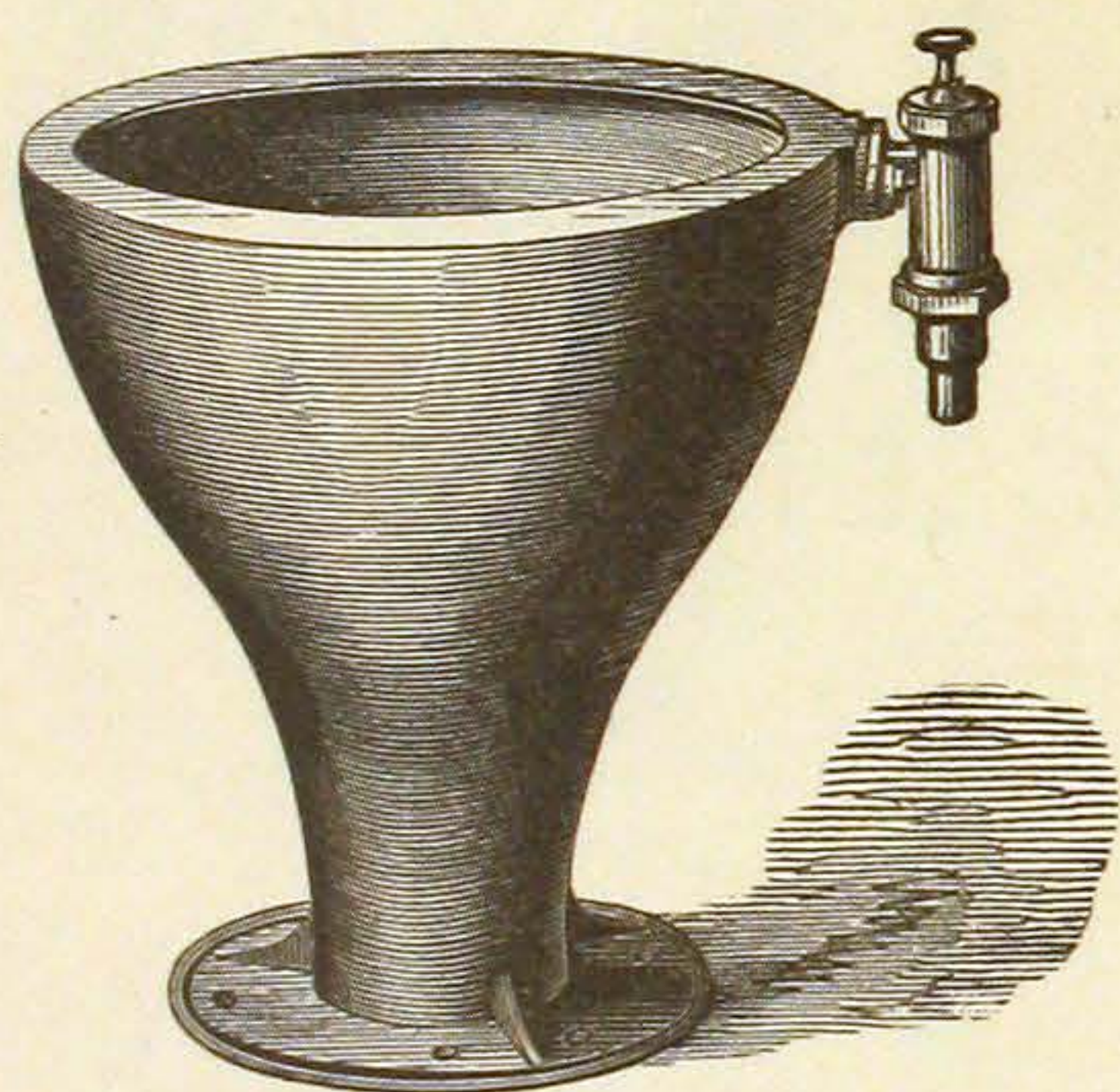


Brass and Plated Cups and Pulls.



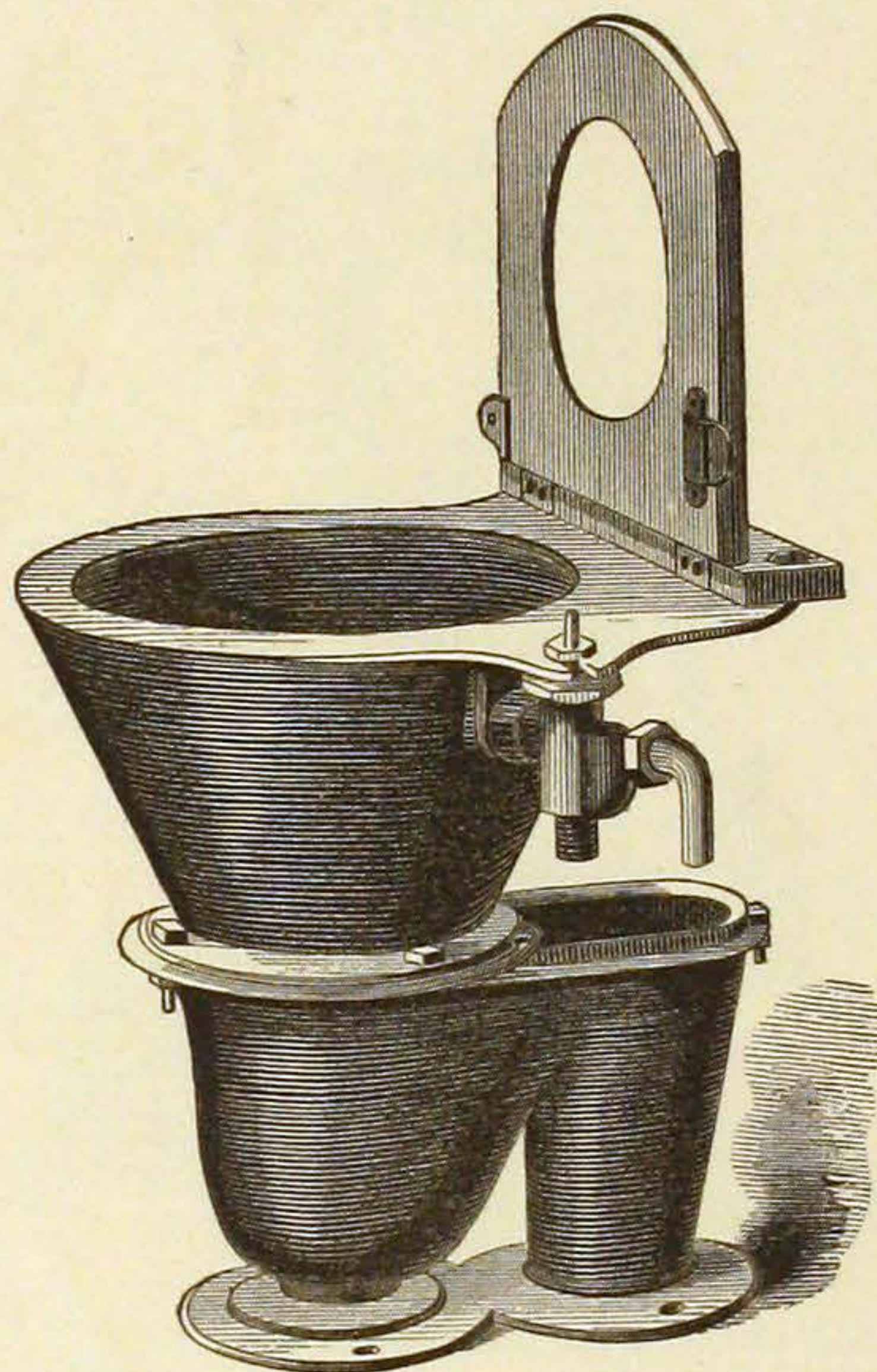
## HOPPERS.

**Fig. 1047.**



With Patent Double Valve.

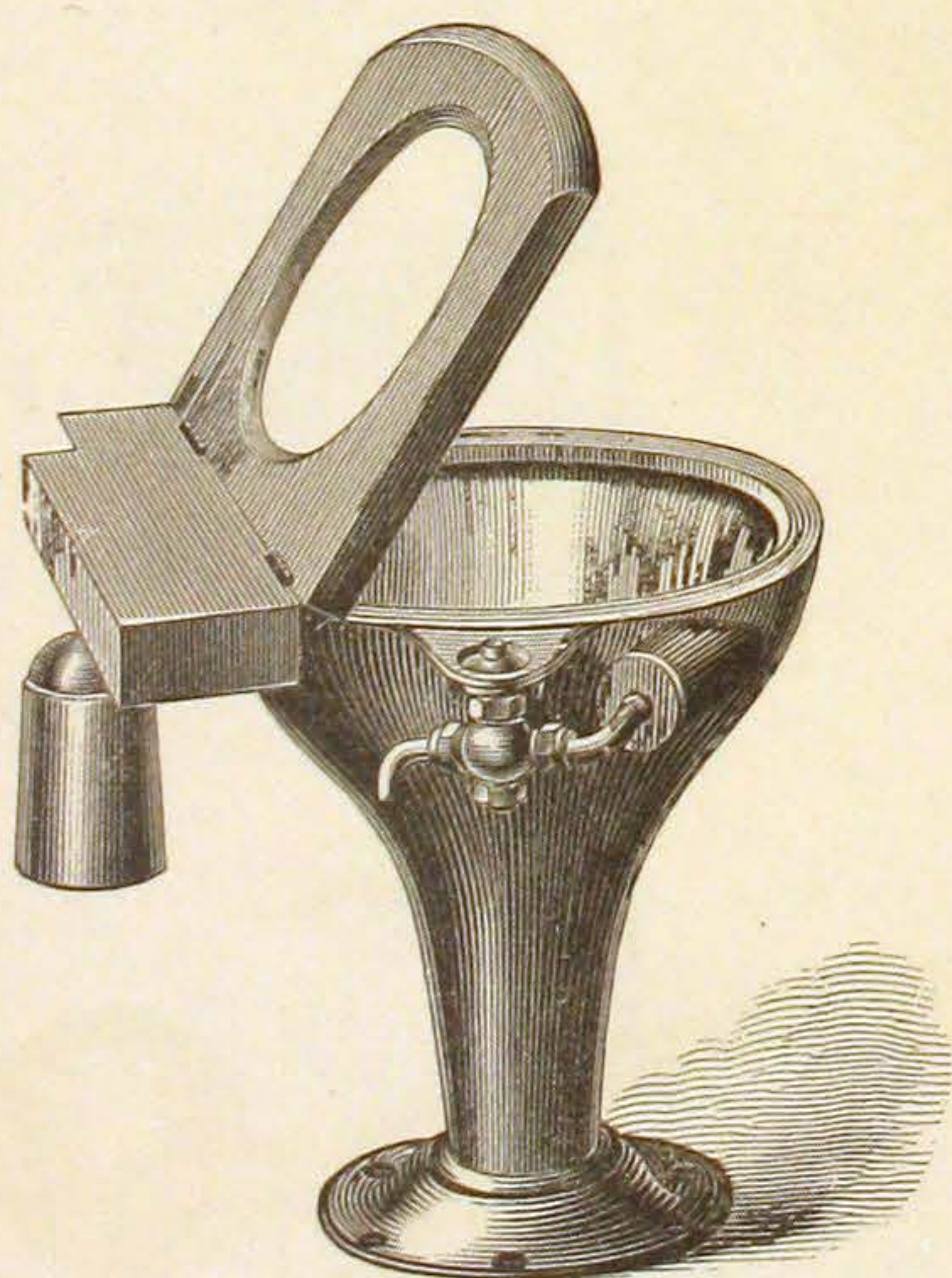
**Fig. 1048.**



With Trap, Single and Double Valve.

## HOPPER URINAL.

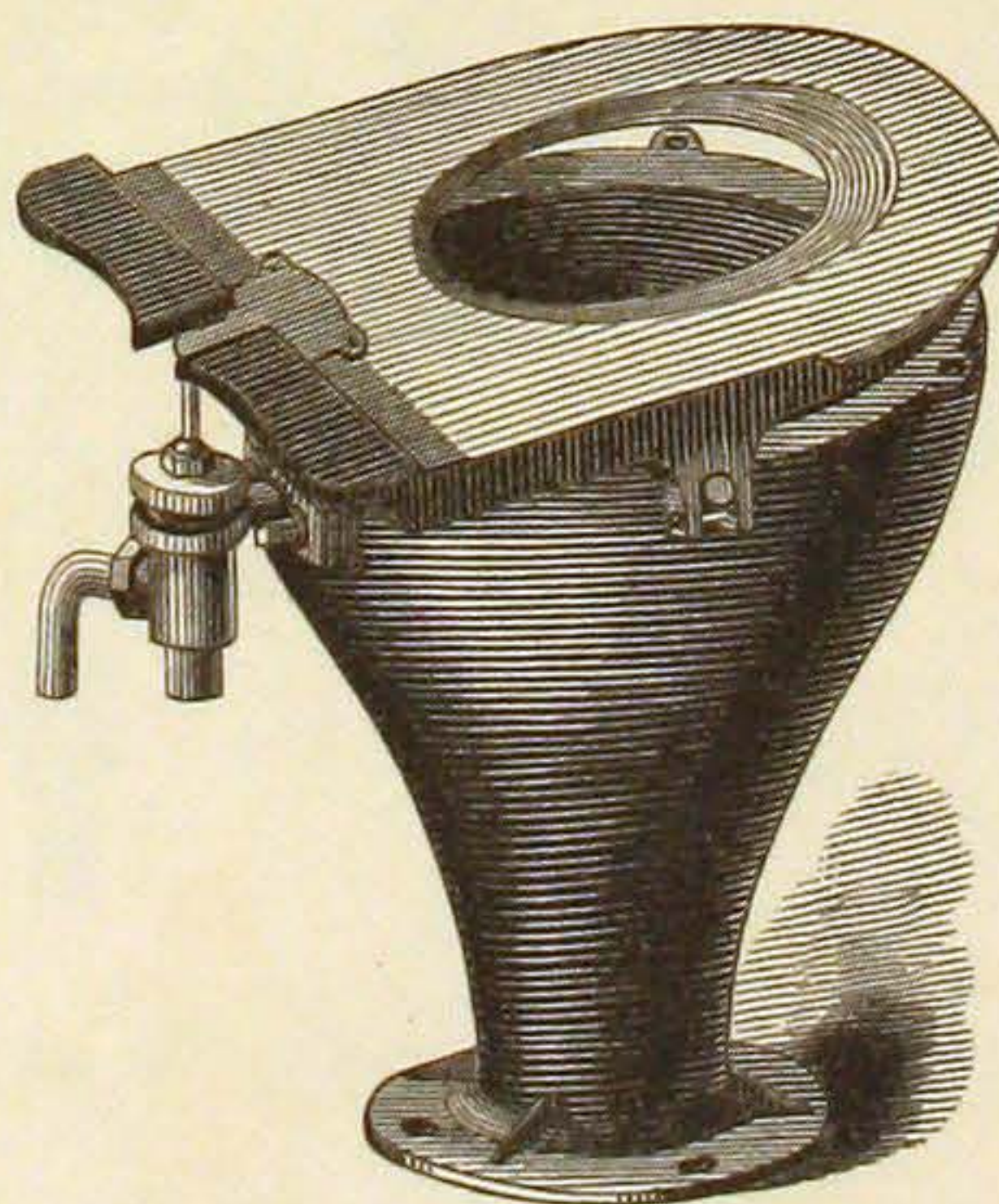
**Fig. 1049.**



With Patent Single and Double Valve.

## HOSPITAL HOPPER.

**Fig. 1050.**

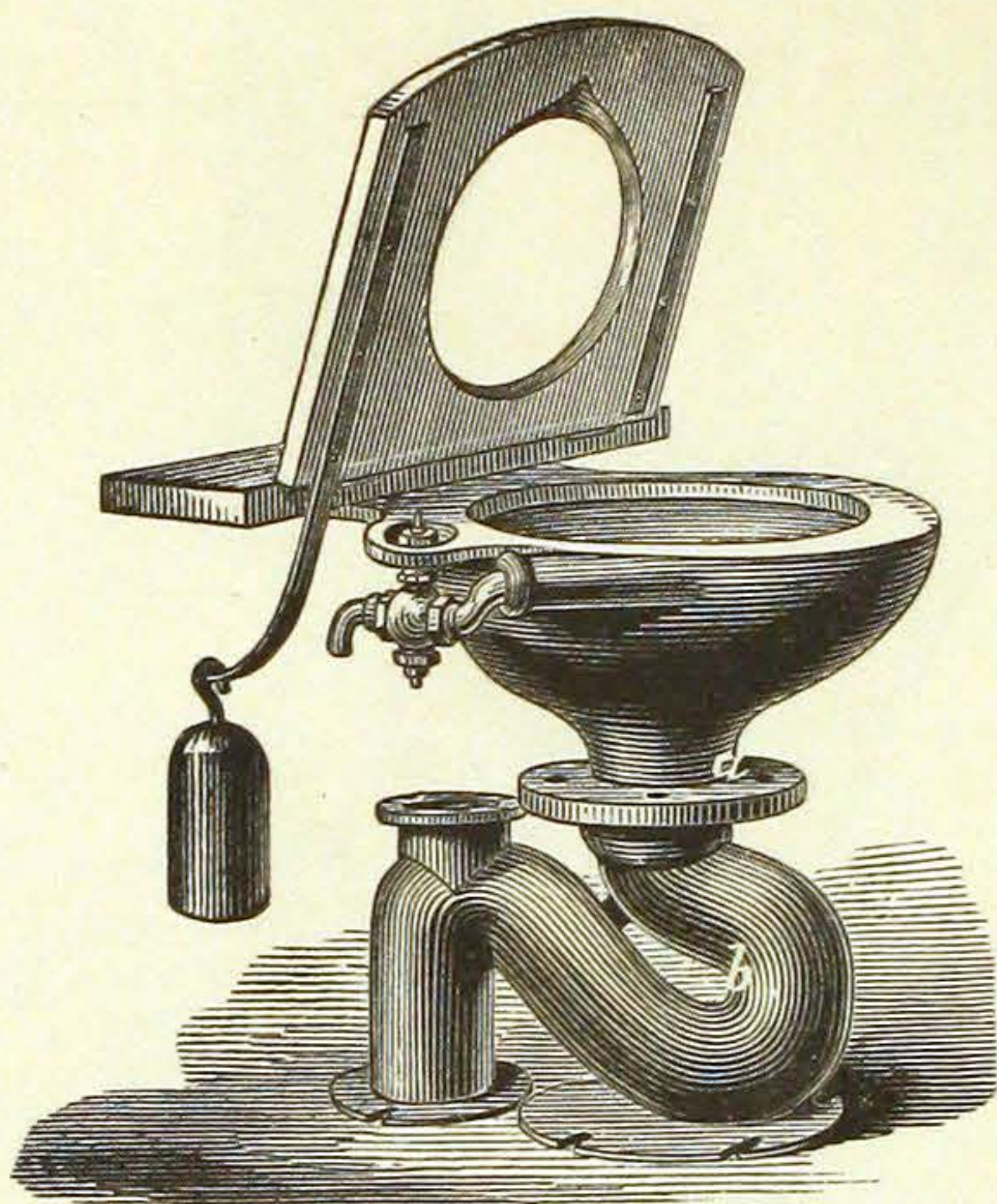


With Patent Valve.



## HOPPER WITH TRAP.

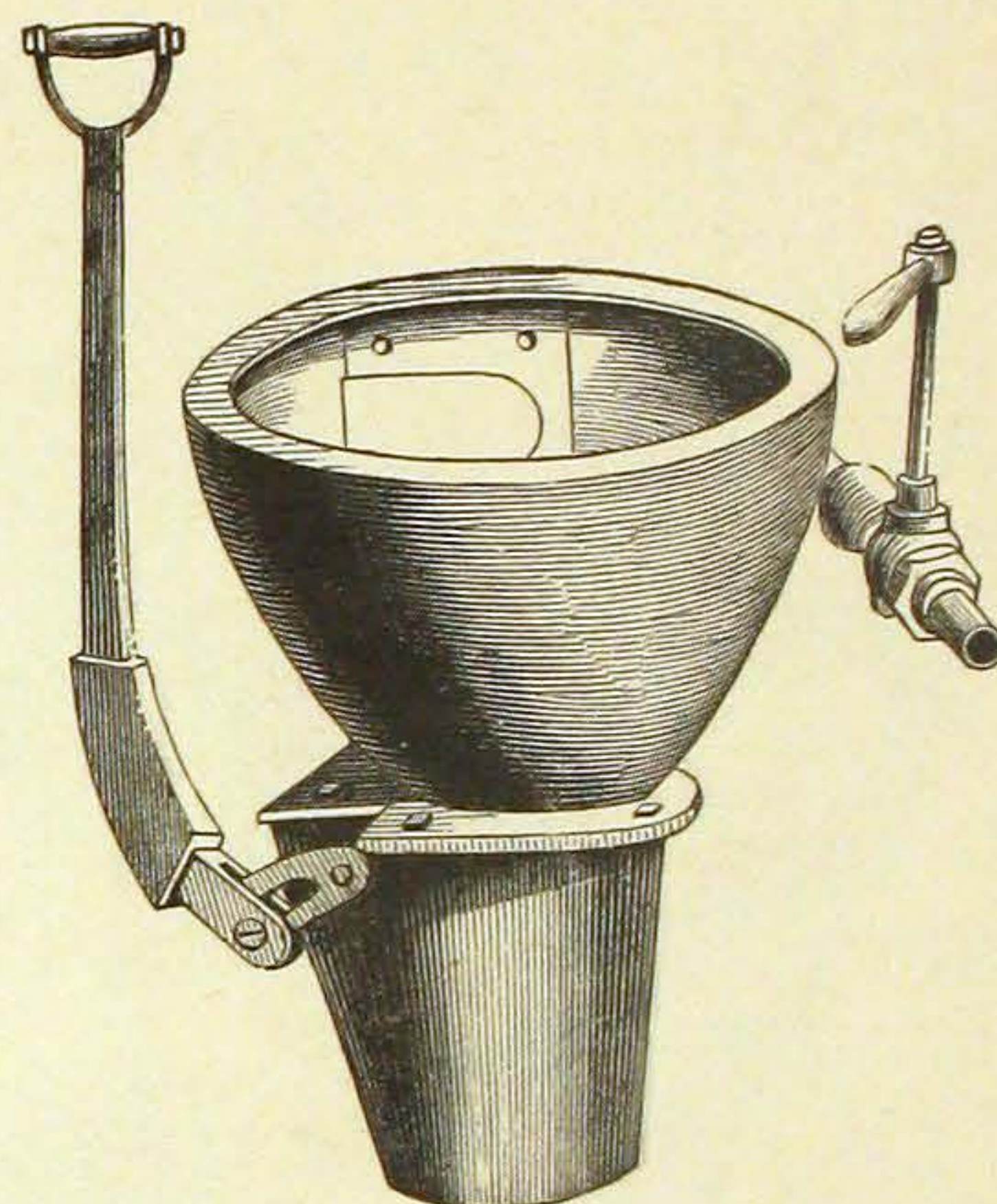
Fig. 1051.



Single and Double Valve.

## SHIP CLOSET.

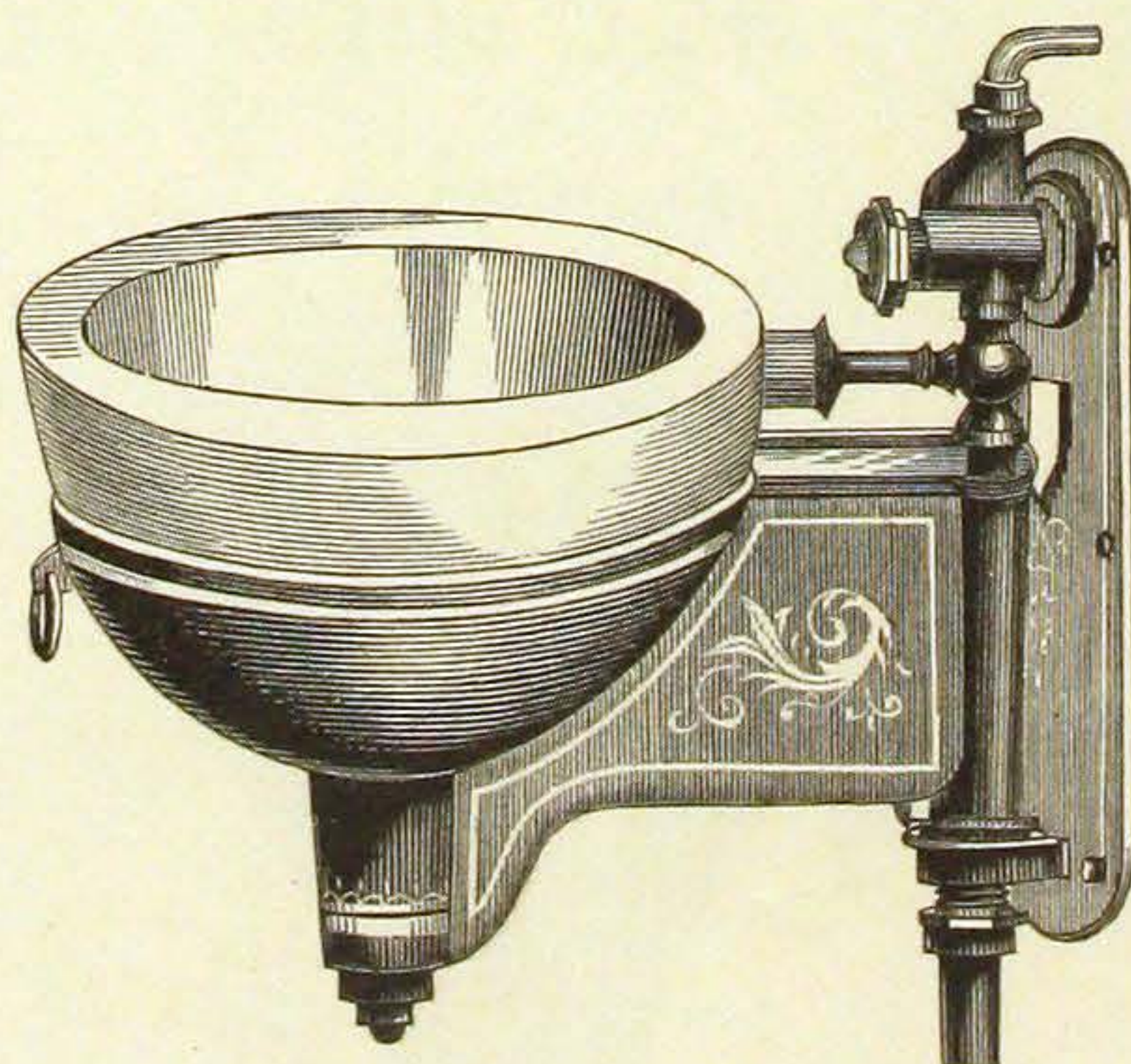
Fig. 1052.



## SWINGING URINALS.

COPPER.

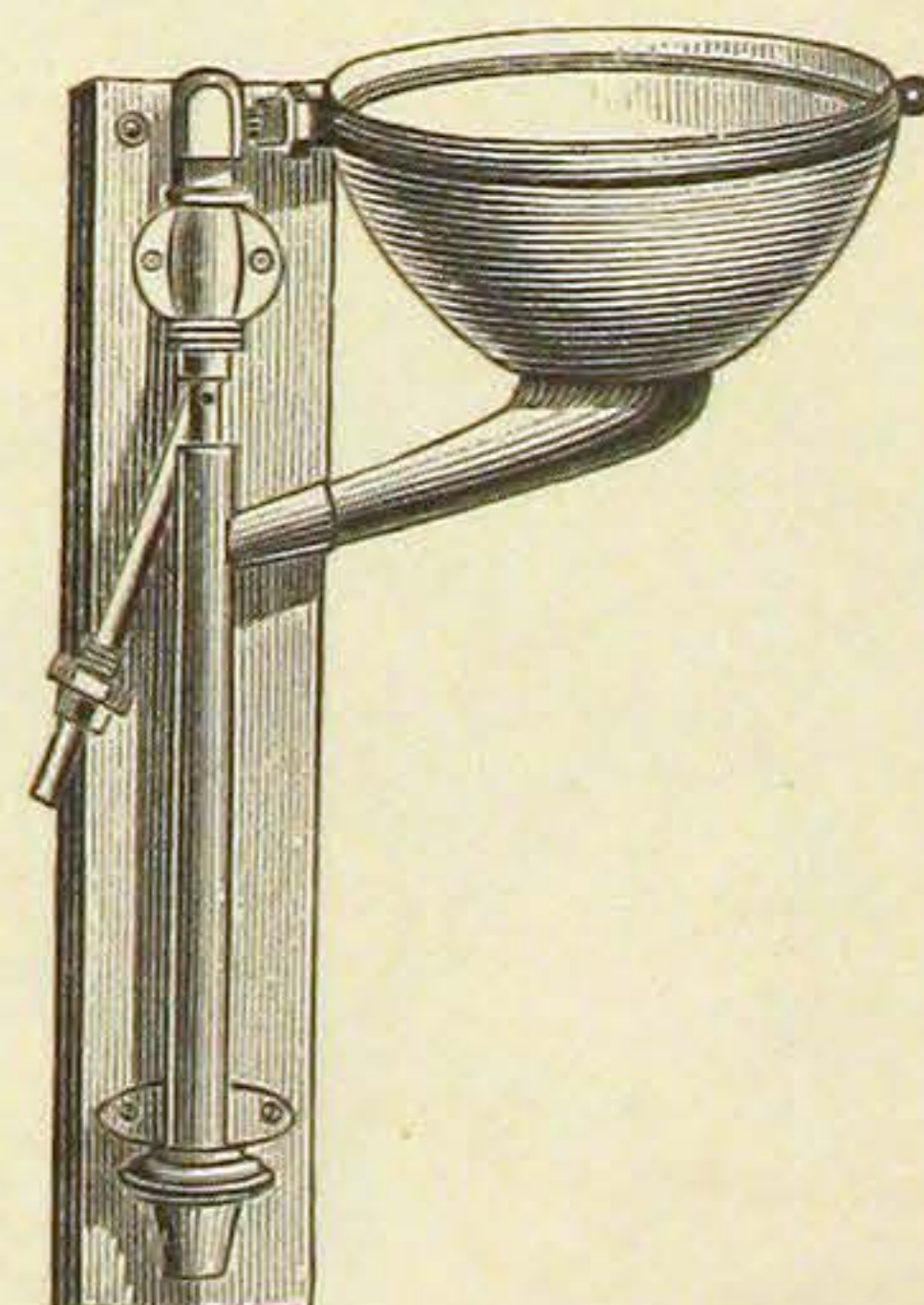
Fig. 1053.



With White or Decorated Bowl.

Large size swings in 21 inches.  
Small size swings in 16 inches.

Fig. 1054.



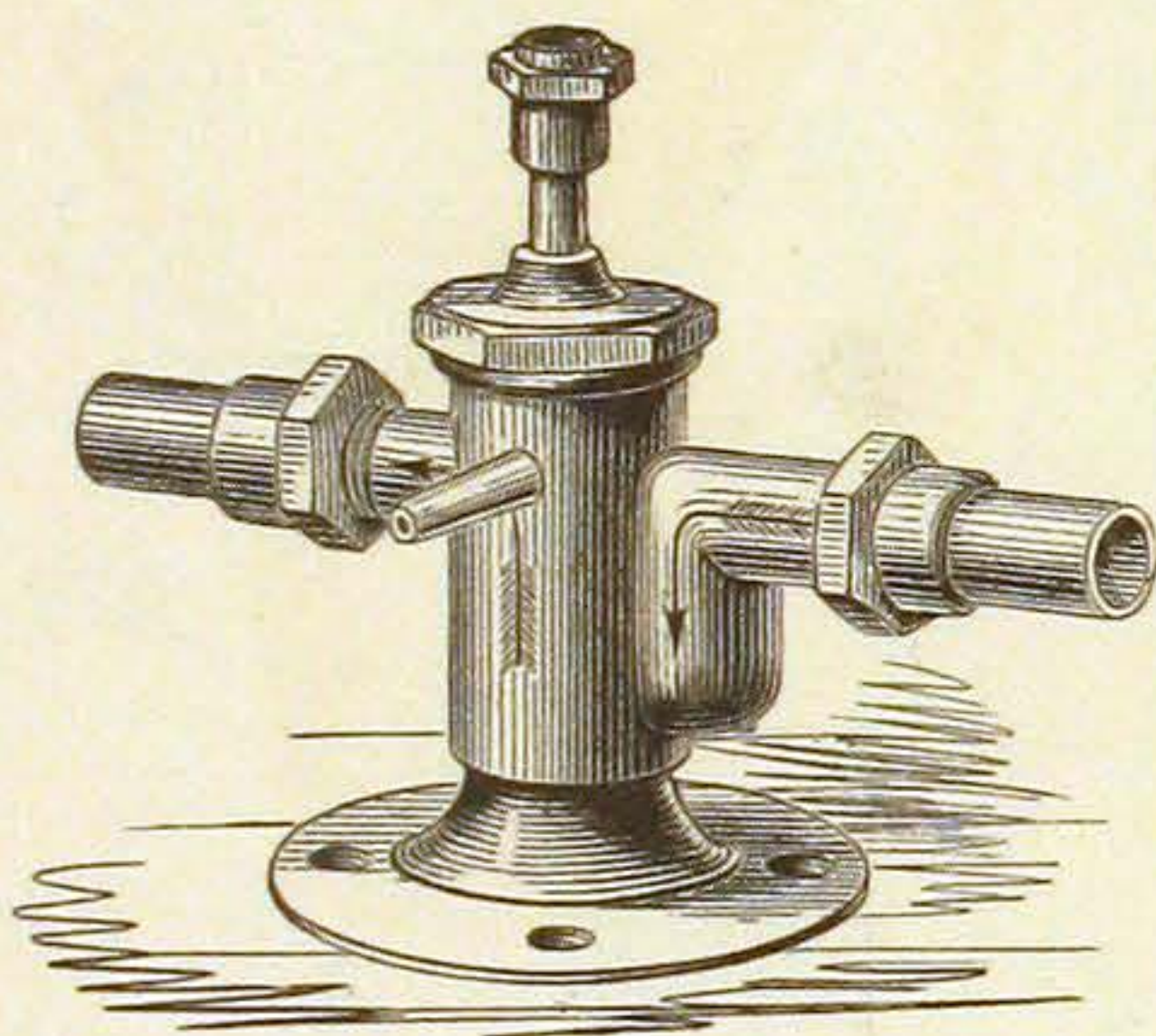


## PATENT HOPPER COCKS.

CARR'S SINGLE.

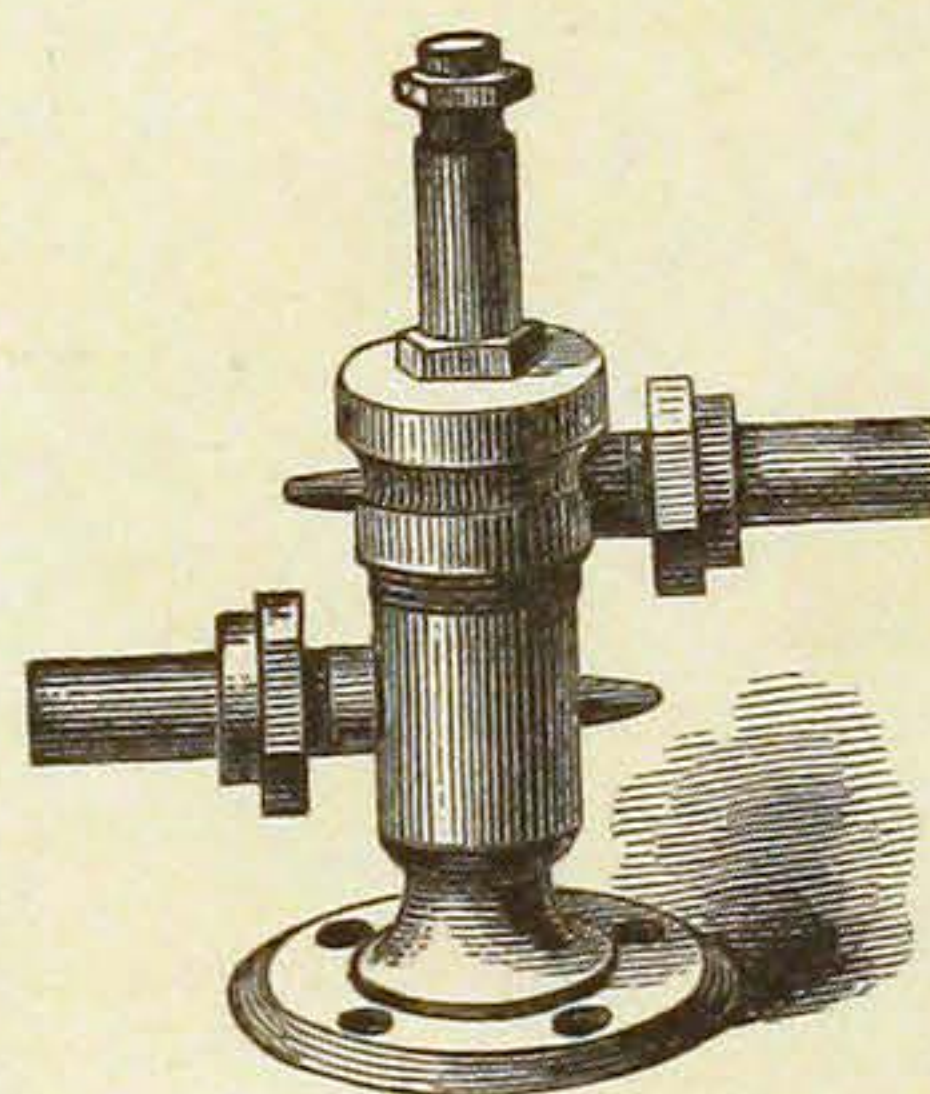
CARR'S DOUBLE.

Fig. 1055.



Runs when sat upon.

Fig. 1056.



Runs when relieved of weight.

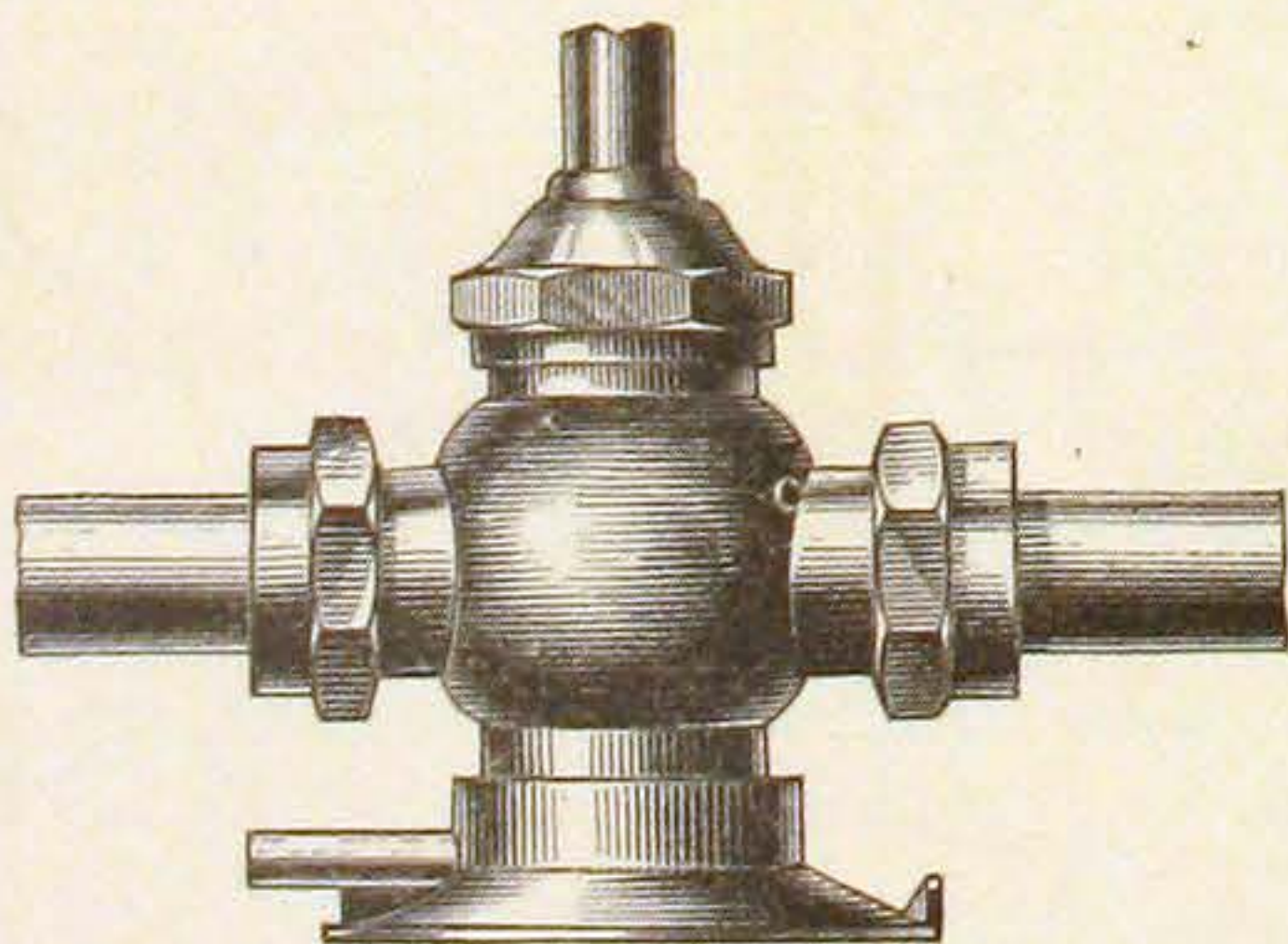
BARTHOLOMEW'S

BARTHOLOMEW'S

SINGLE.

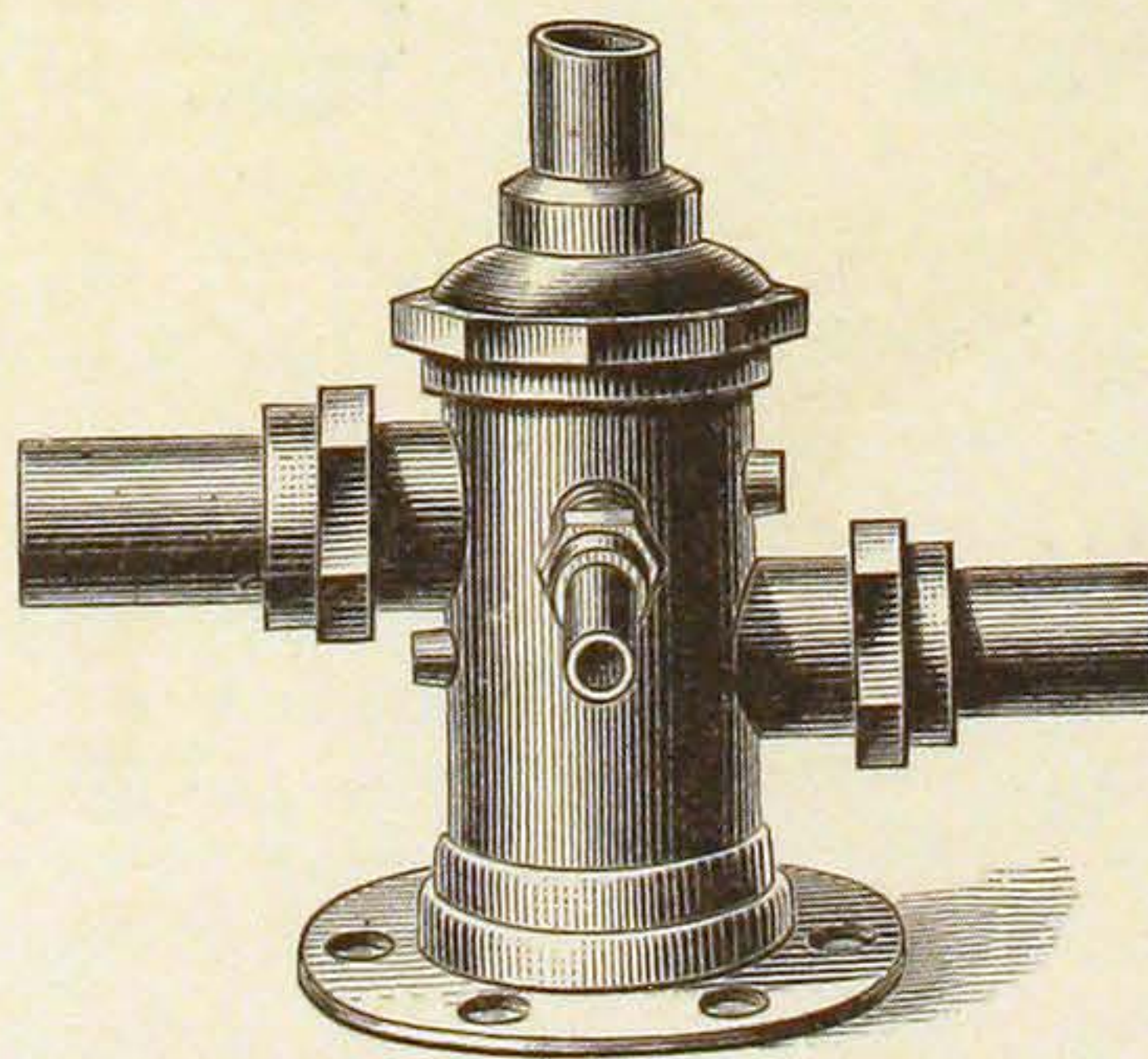
DOUBLE.

Fig. 1057.



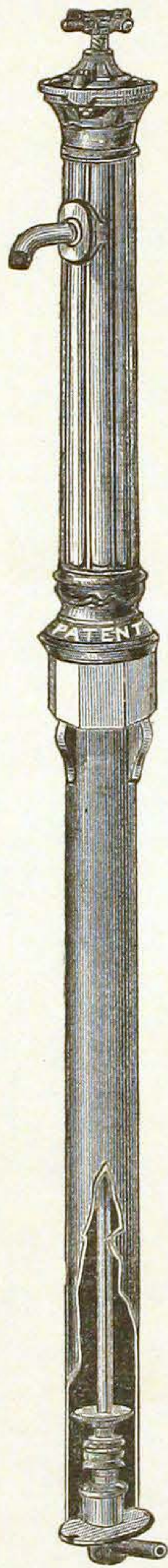
Runs when sat upon.

Fig. 1058.



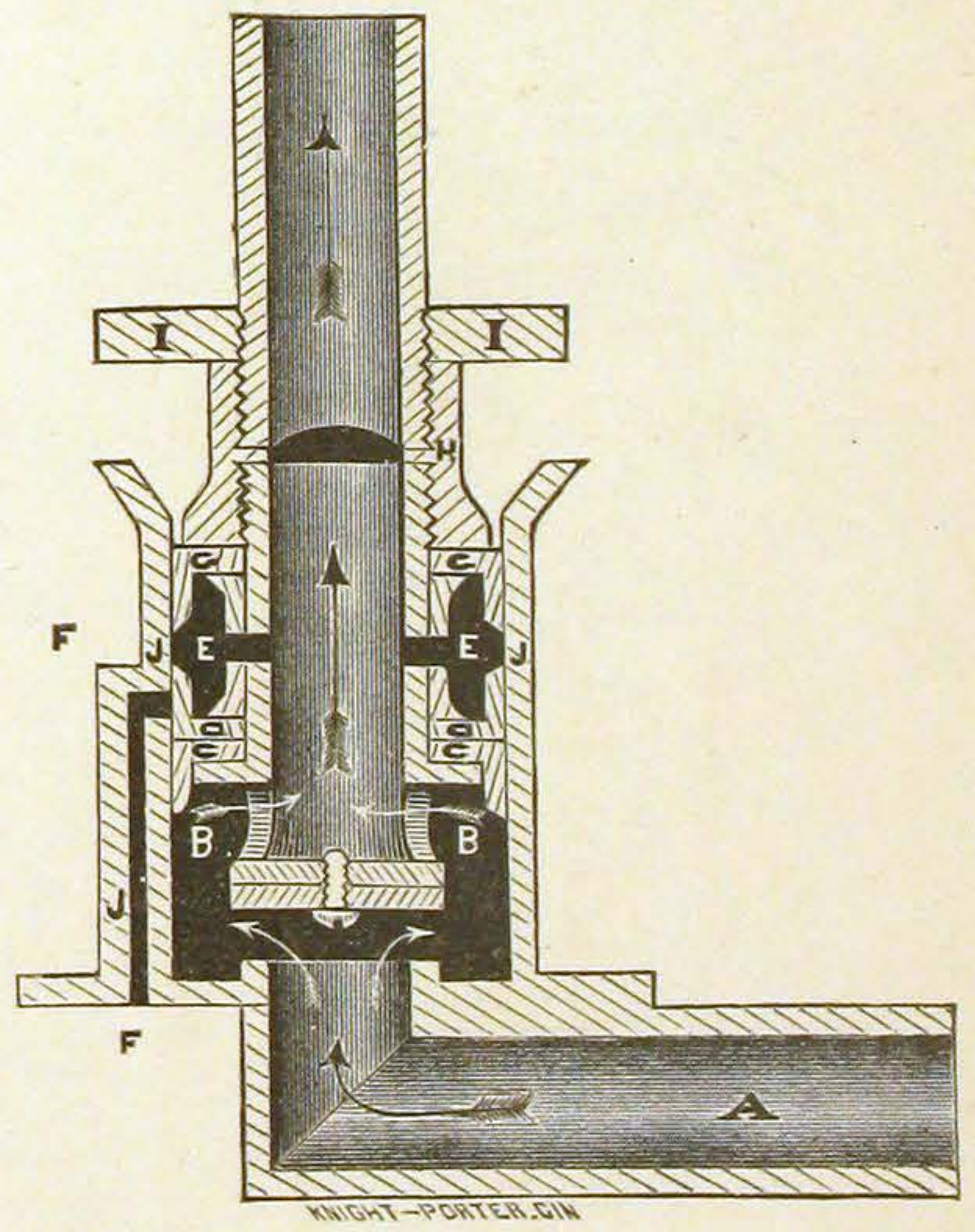
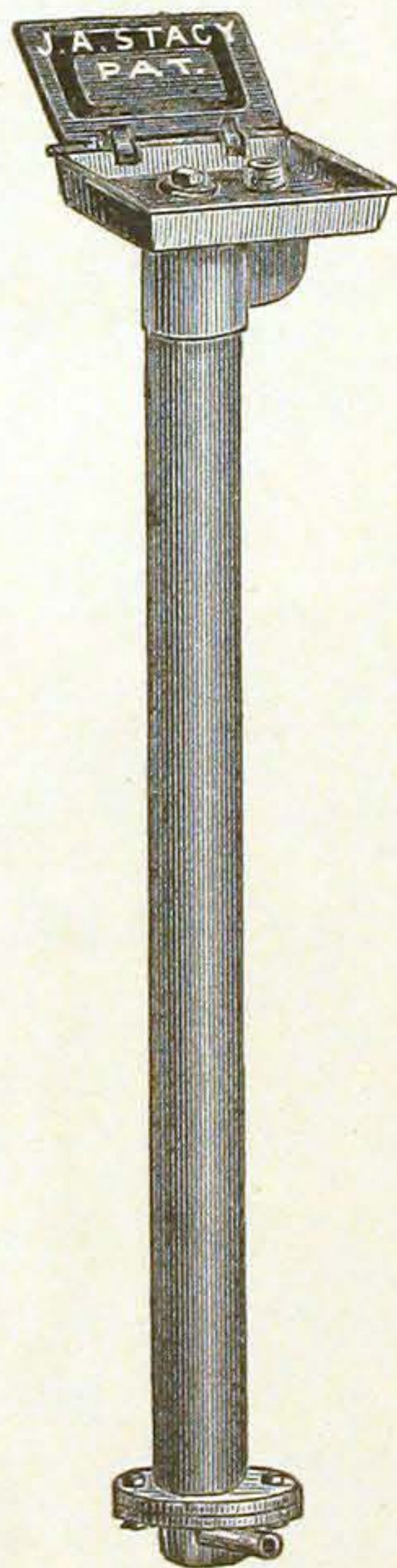
Runs when relieved of weight.



**Fig. 1059.**

# ANTI-FREEZING VALVE HYDRANT AND IMPROVED STREET WASHER.

## STACY'S PATENT.

**Fig. 1060.**

Sectional Cut.

**Description of Valve, which is the same both in Hydrant and Street Washer.**

A in the cut represents the inlet of the water. B B, with arrows, represents the waterway. C, the lower cup, expanding to the outside of the chamber J, securing the waste from the bottom. D, the middle cup, securing the waste also from the water chamber E. F F, represents the waste. G, the upper cup to secure the water from running out of the top of the chamber J, while the water is running. H, the nut which secures the cups and also receives the pipe for the outlet. I, the guide to the valve, protecting the plunger while being put in, and also keeps the sand from getting into the valve.

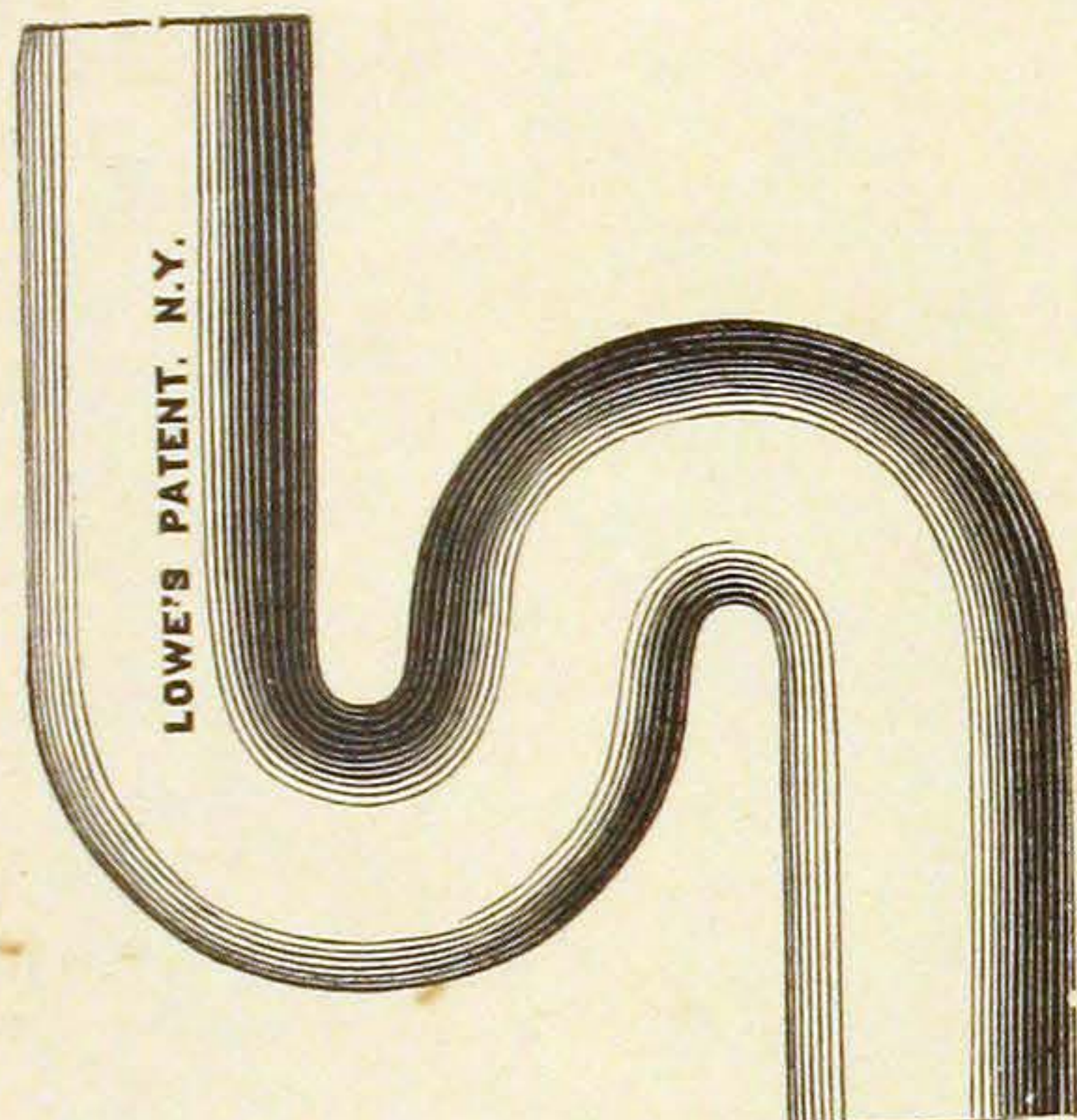
This Hydrant or Street Washer does not need to be dug up for repairs; by unscrewing the hose and taking out the two bolts from the top of the Hydrant, all the working parts of the valve can be easily taken out of the top, both of the Hydrant and Street Washer. The cups for the packings are all furnished ready for use to all Dealers and Plumbers.



# CAST LEAD TRAPS AND BENDS.

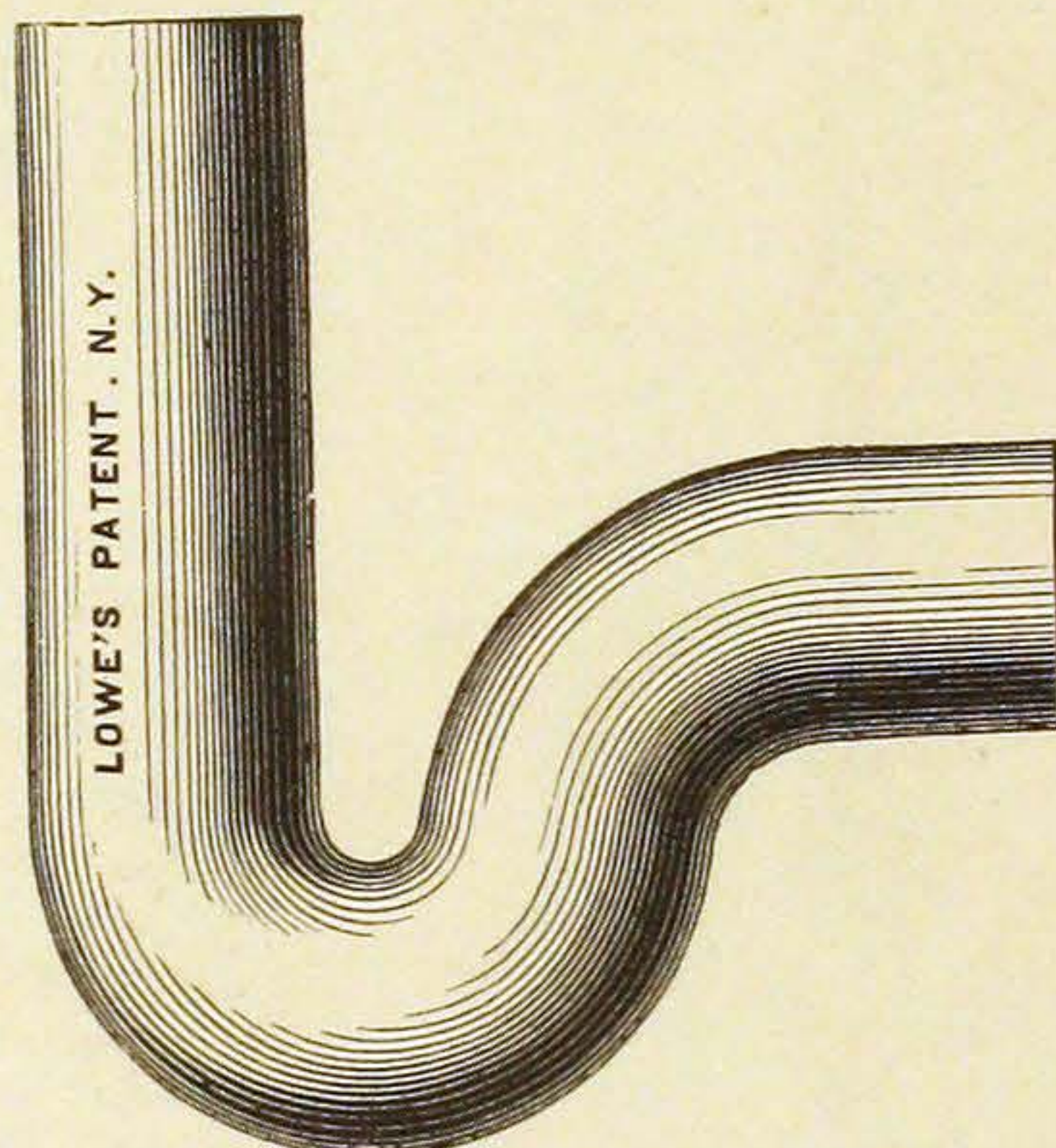
FULL S TRAP.

Fig. 1061.



HALF S TRAP.

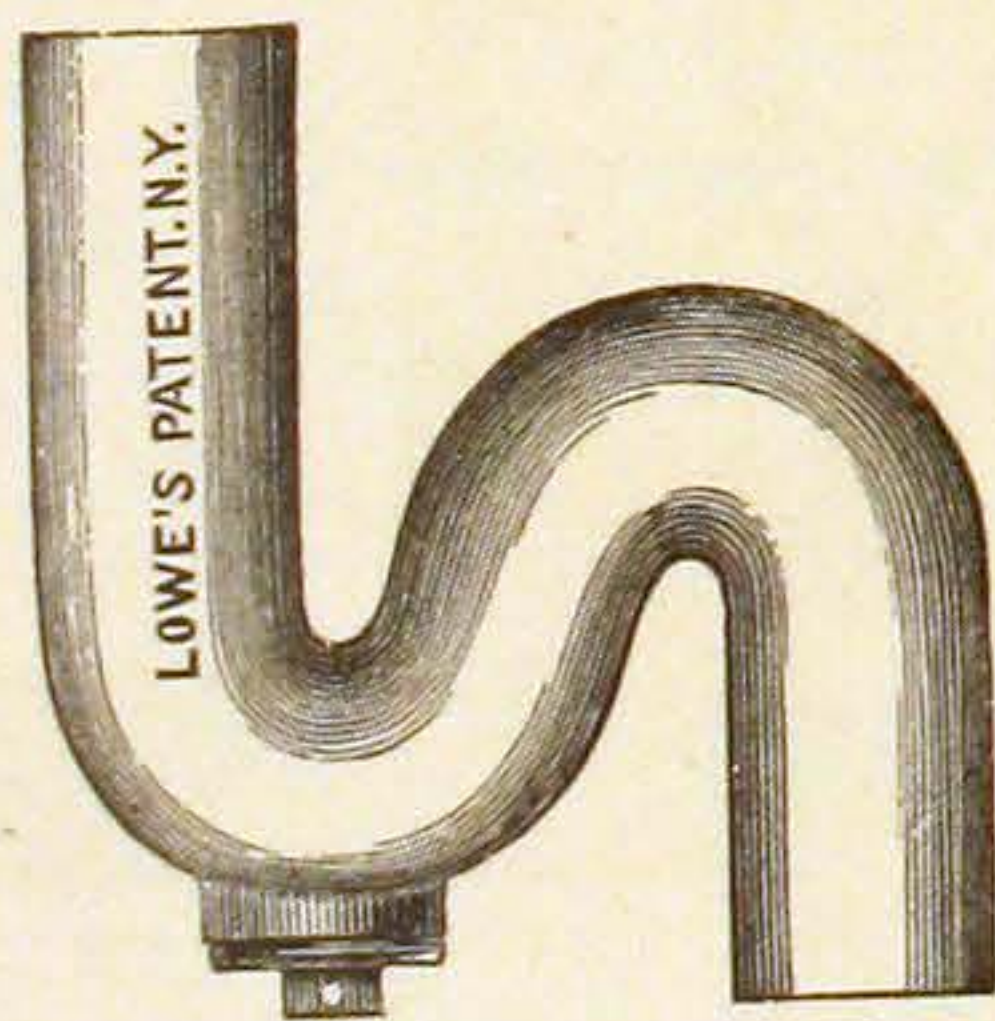
Fig. 1062.



Sizes,  $1\frac{1}{4}$ ,  $1\frac{1}{2}$ , 2 and 4 inches.

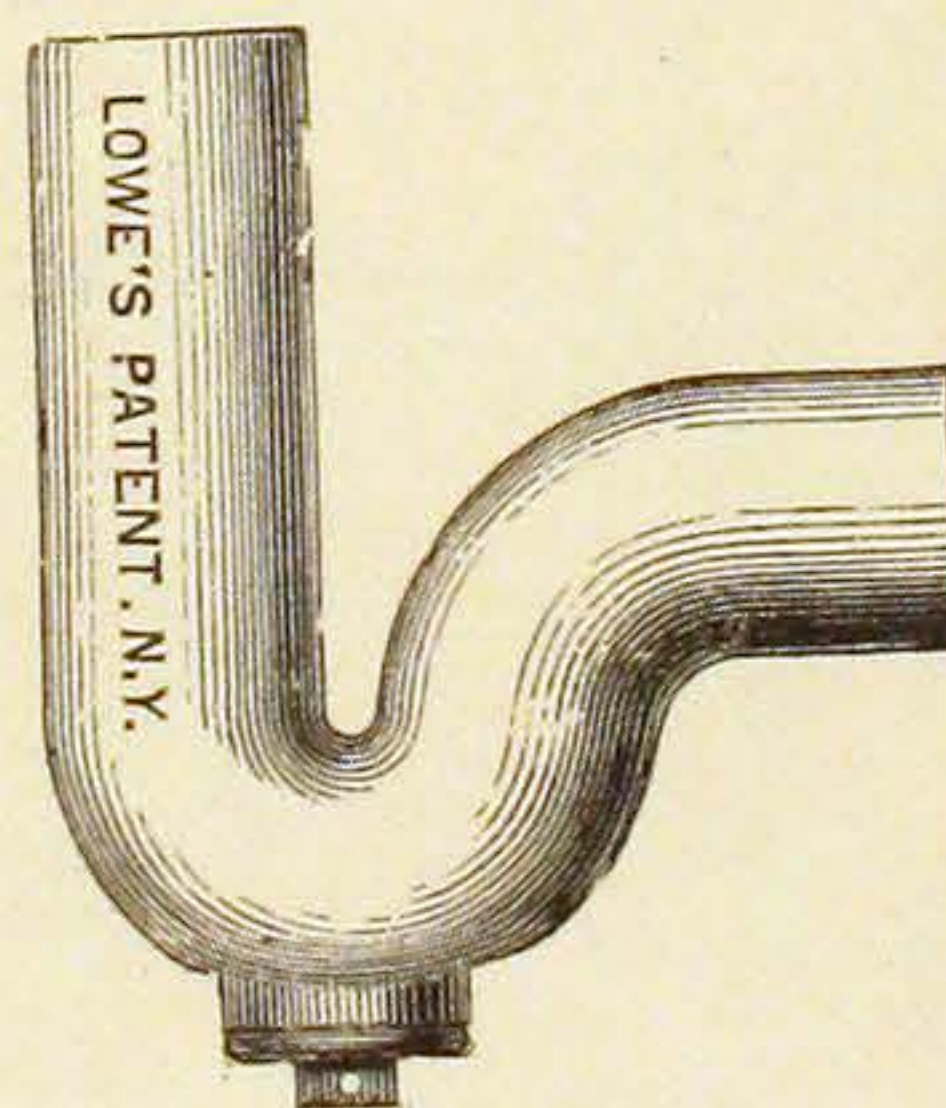
FULL S TRAP  
AND SCREW.

Fig. 1063.



HALF S TRAP  
AND SCREW.

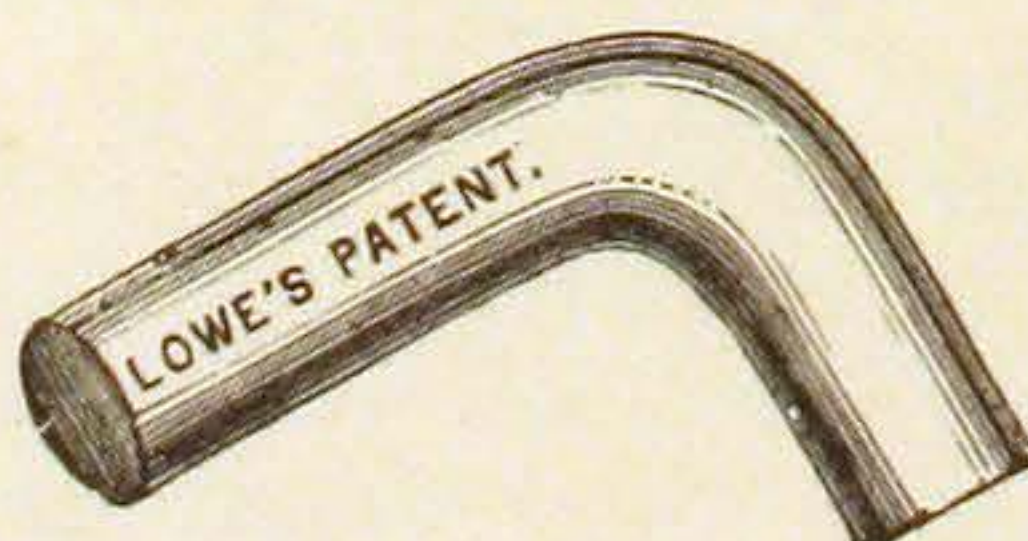
Fig. 1064.



Sizes,  $1\frac{1}{4}$ ,  $1\frac{1}{2}$  and 2 inches.

LEAD BEND.

Fig. 1065.



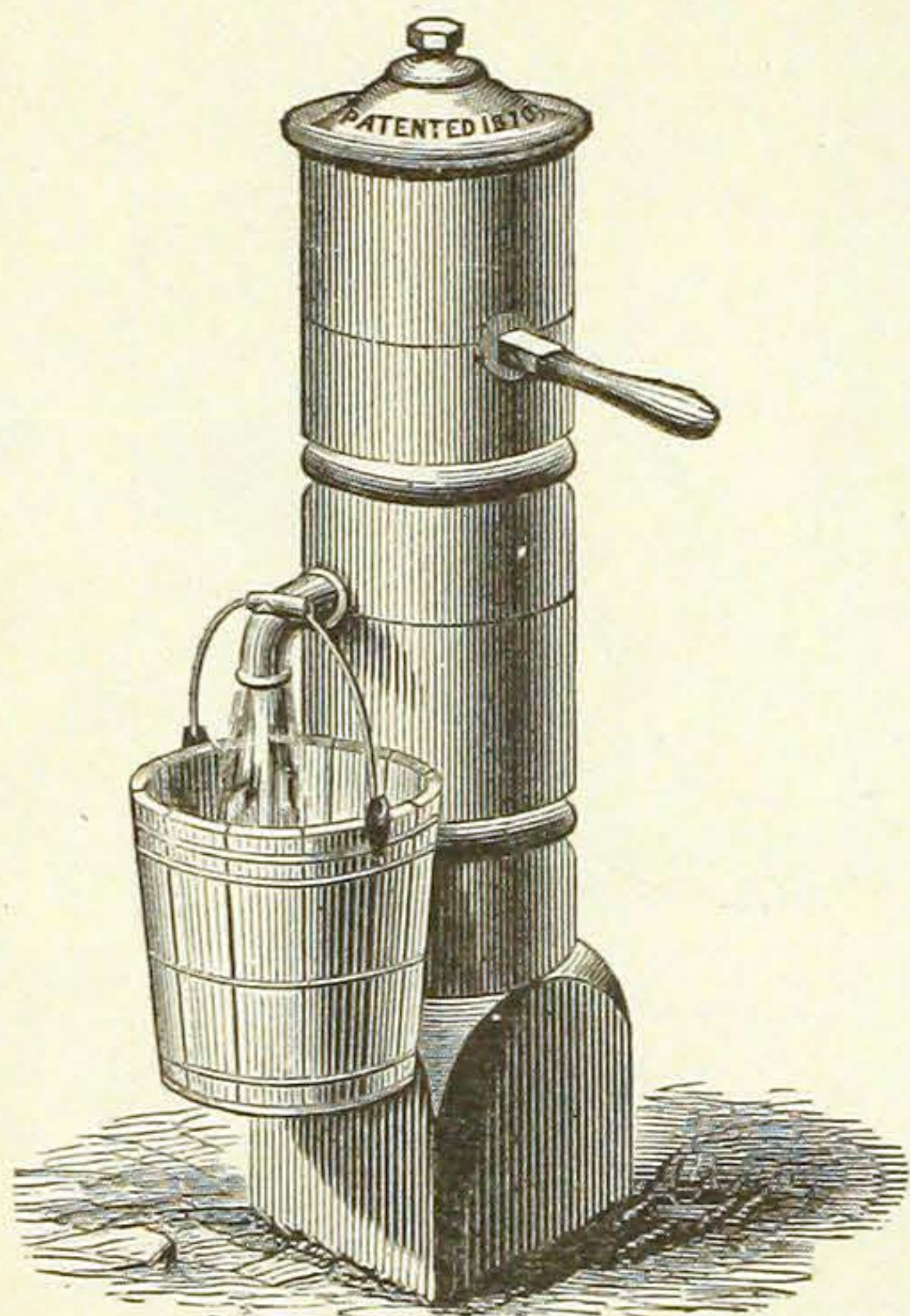
Sizes,  $1\frac{1}{2}$ , 2 and 4 inches.



## HYDRANTS.

Patent Hydrant.

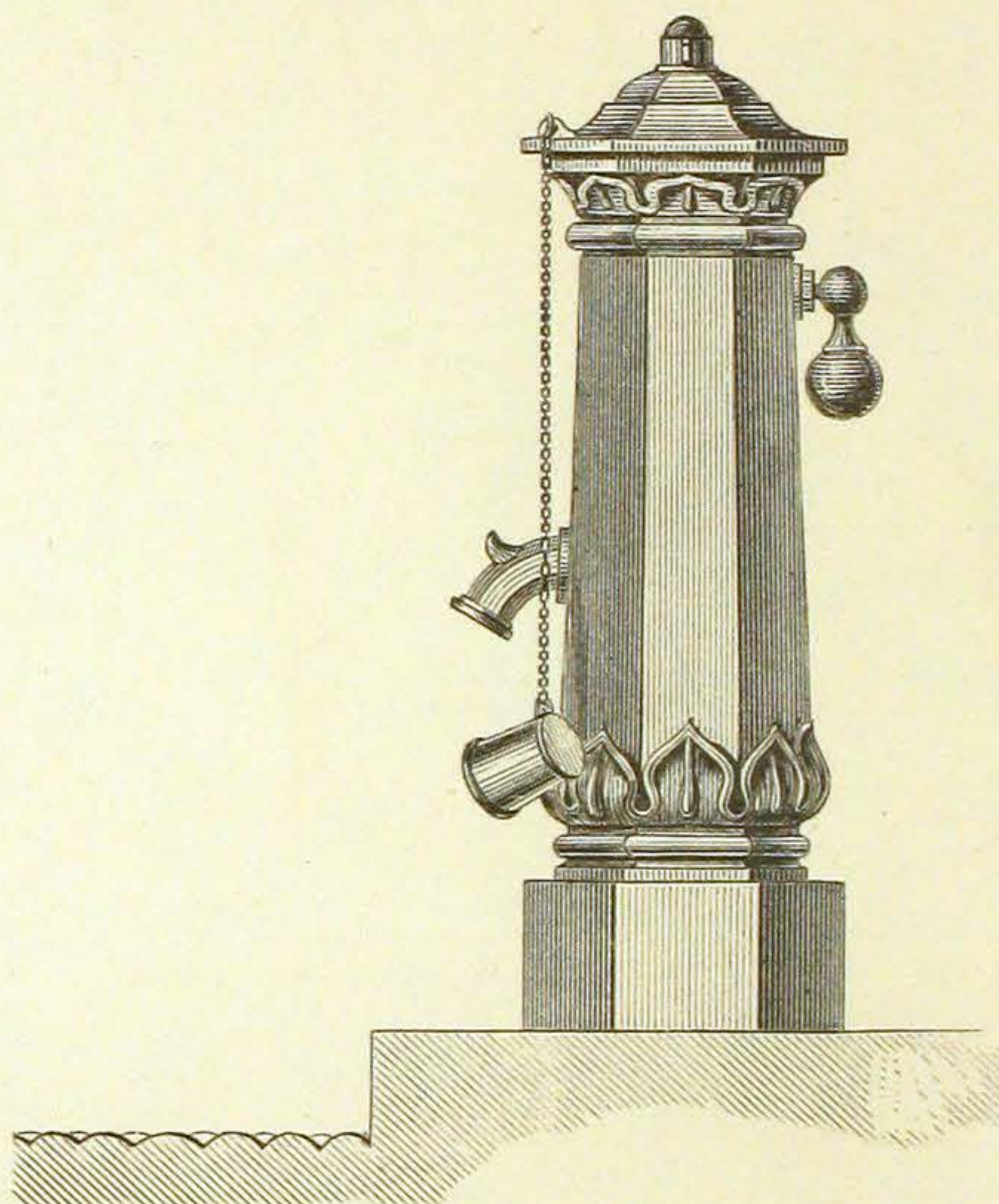
Fig. 1066.



Wood.

Iron Hydrant.

Fig. 1066½.



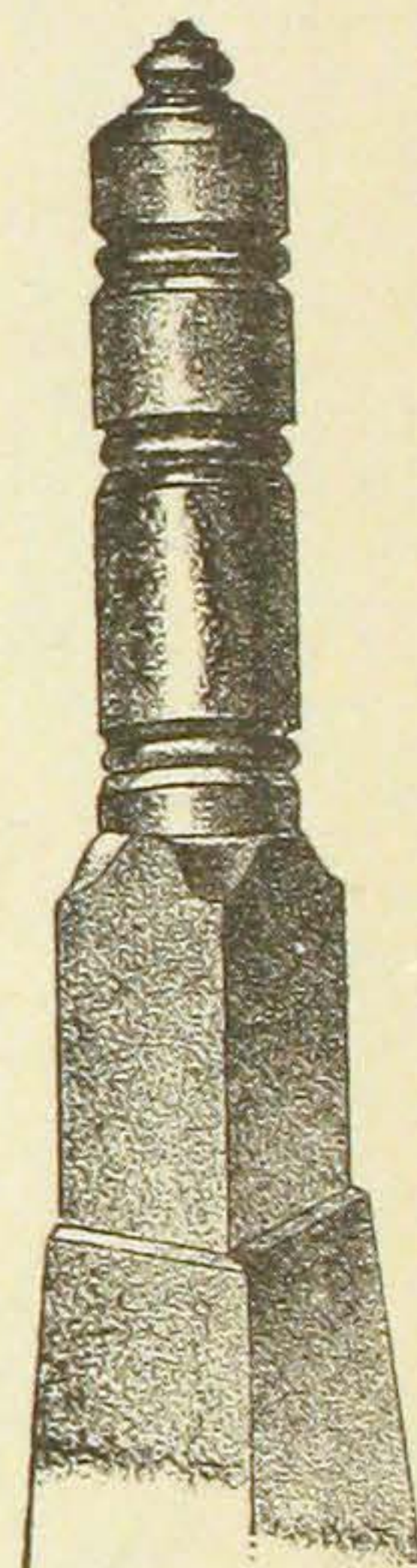
Hydrant Rod.

Fig. 1068.



Common Hydrant Post.

Fig. 1067.



Wood.

## METALS.

No. 1, Tinnerns' Solder.

Fig. 1069.



No. 2, Plumbers' Solder.

Fig. 1070.



Tin (all kinds).

Fig. 1071.

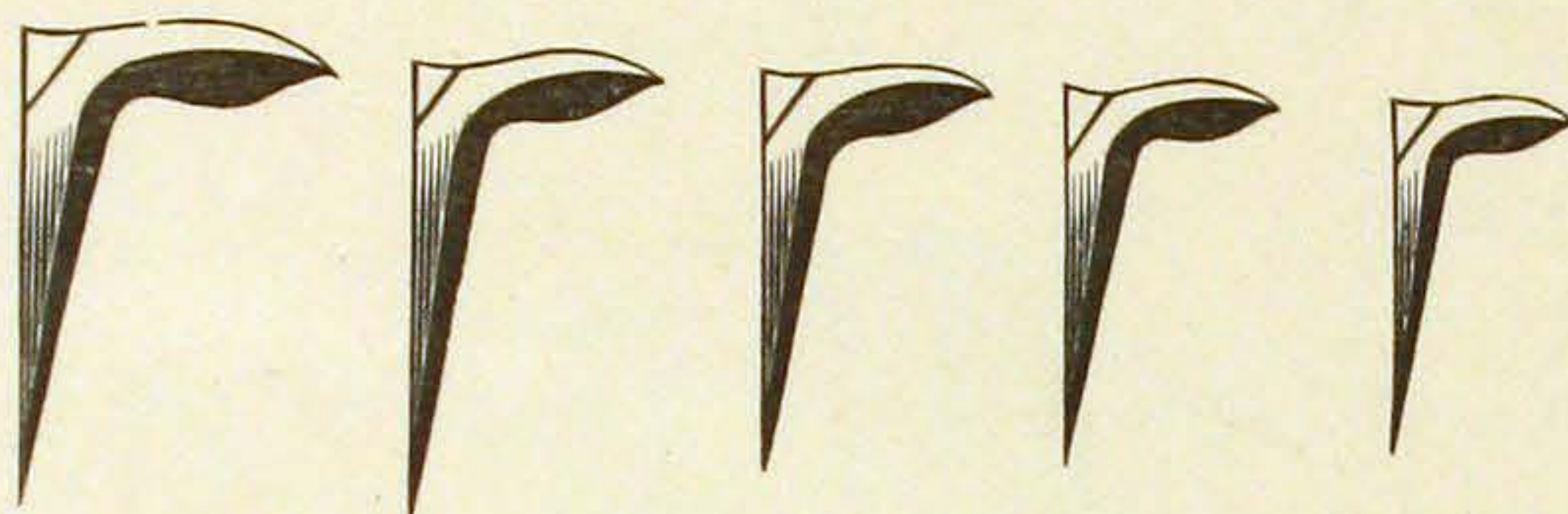


We warrant our Solder equal to the best.



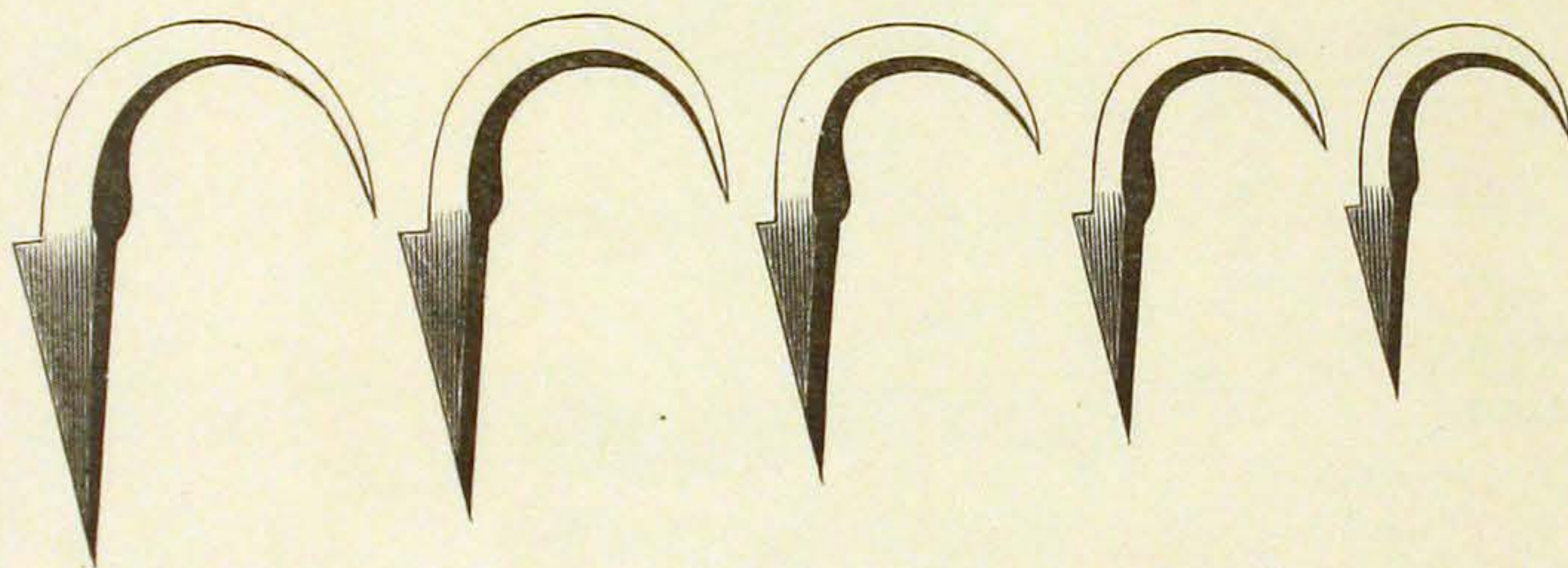
## PLUMBERS' HOOKS.

Fig. 1072.



## LEADER HOOKS.

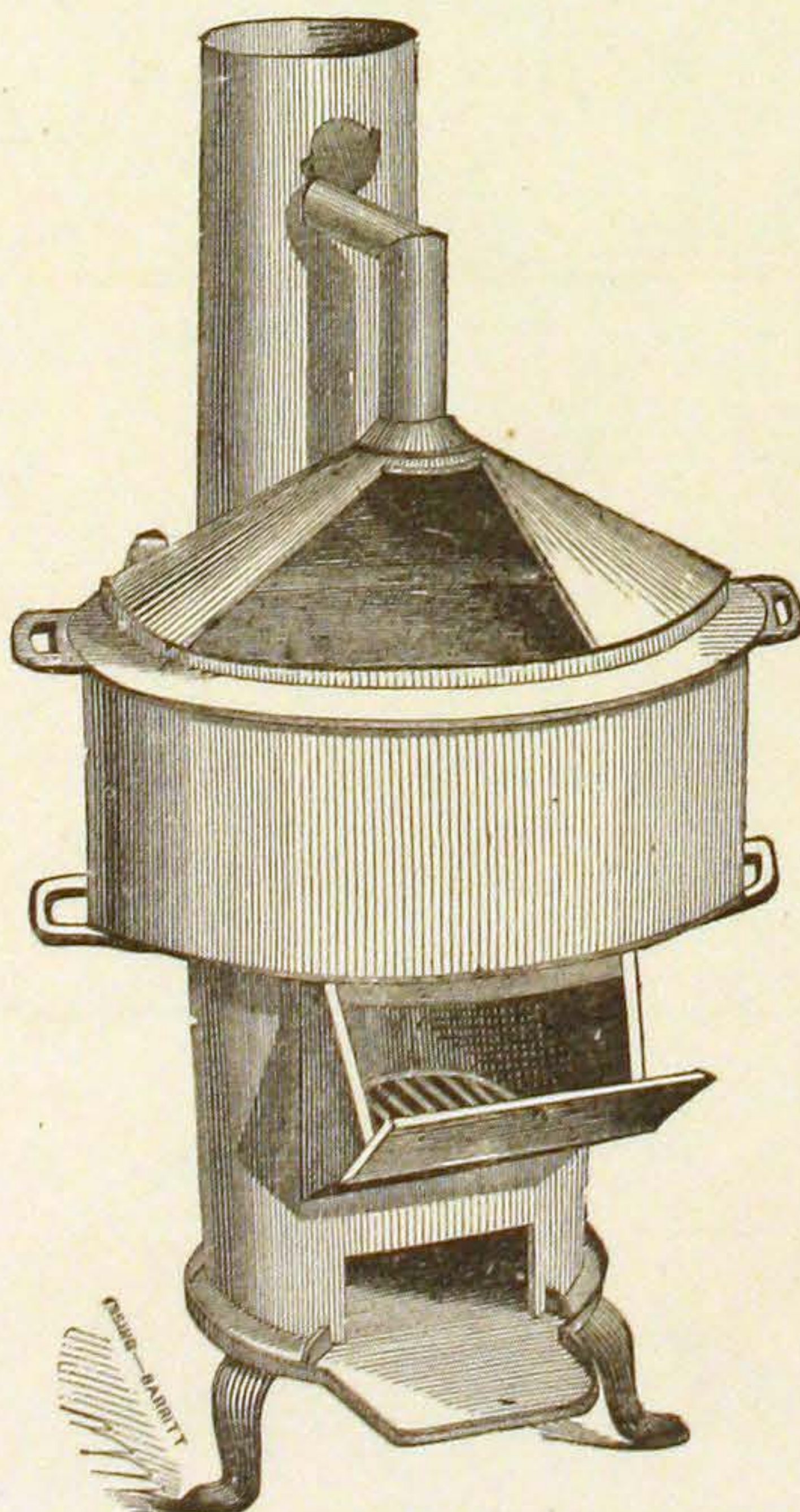
Fig. 1073.



Plain and Tinned.

## PLUMBERS' FURNACE.

Fig. 1074.

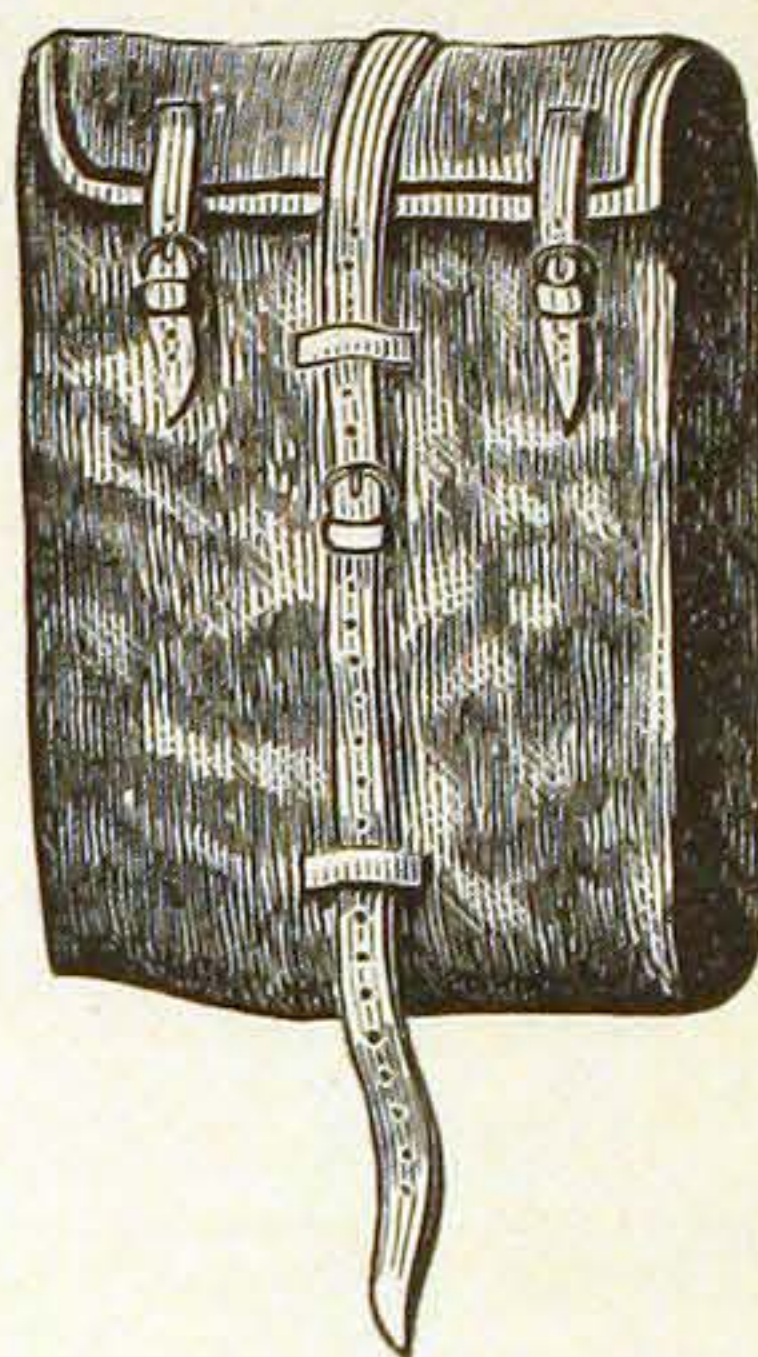


For Melting Lead.



## PLUMBERS' TOOLS.

Fig. 1075.



TOOL BAG.

Fig. 1076.



BOSSING STICK.

Fig. 1077.



DRESSER.

Fig. 1078.



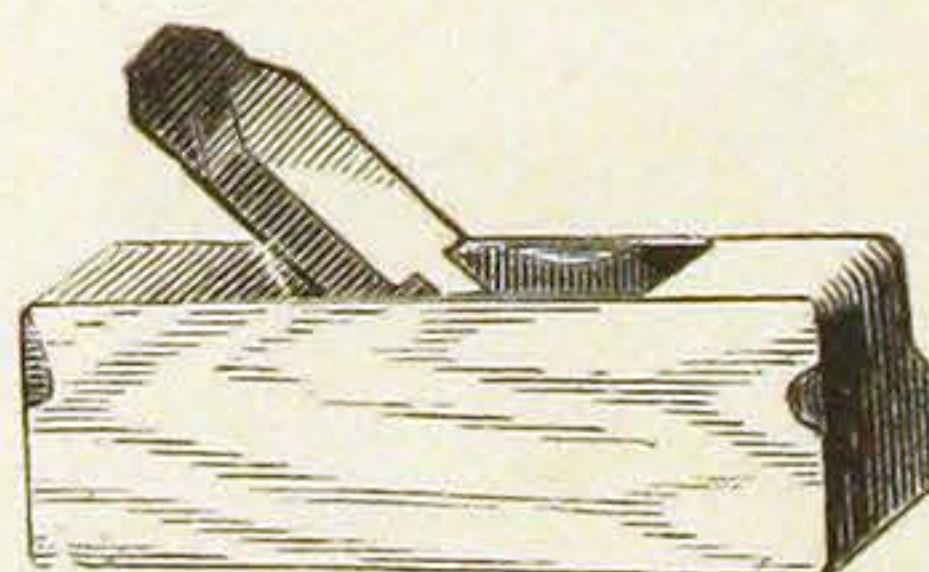
SIDE EDGE.

Fig. 1079.



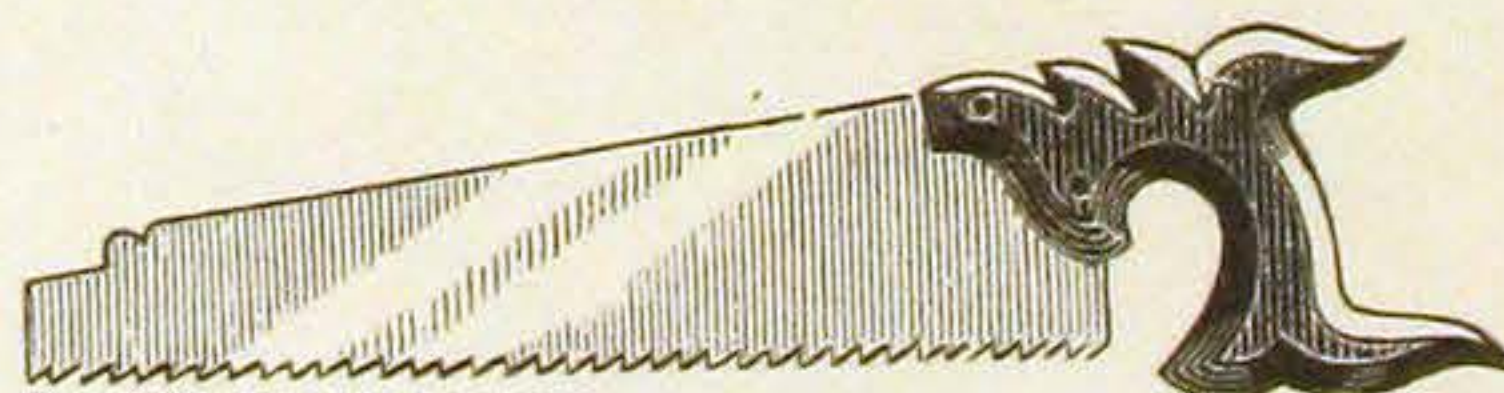
TURNPIN.

Fig. 1080.



PLANE.

Fig. 1081.



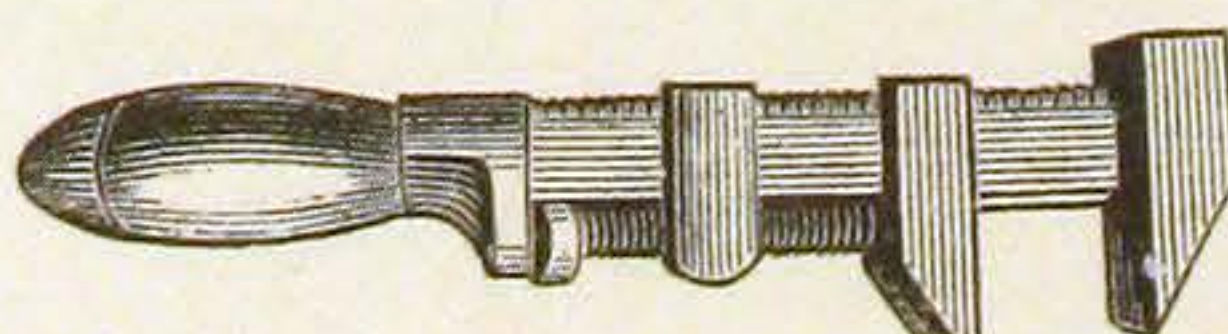
PANEL SAW.

Fig. 1082.



SCREW DRIVER.

Fig. 1083.

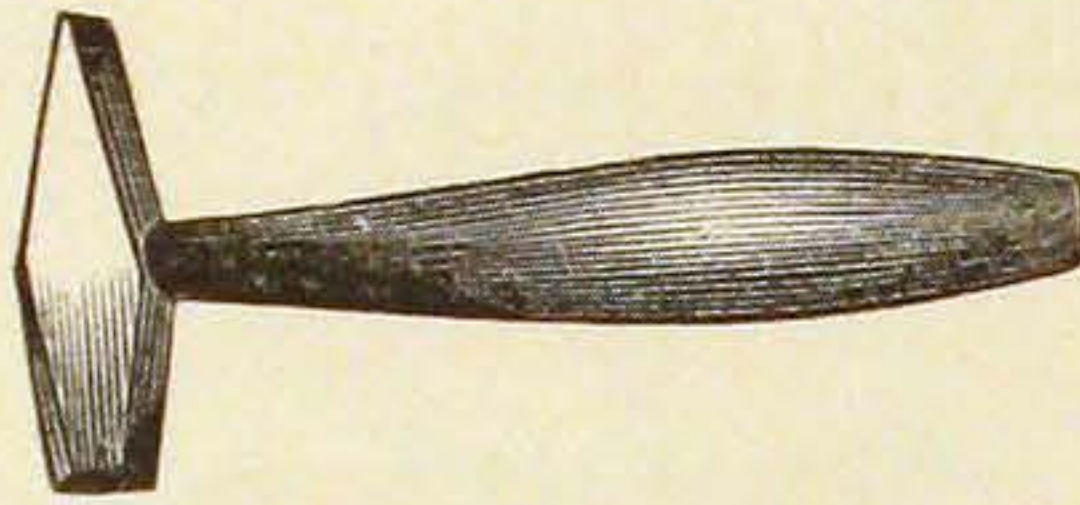


SCREW WRENCH.



## PLUMBERS' TOOLS, CONTINUED.

Fig. 1084.



HAMMER.

Fig. 1085.



RASP.

Fig. 1086.



FILE.

Fig. 1087.



CALKING CHISEL.

Fig. 1088.



STEEL COLD CHISEL.

Fig. 1089.



FIRMER CHISEL.

Fig. 1090.



FLOOR CHISEL.

Fig. 1091.



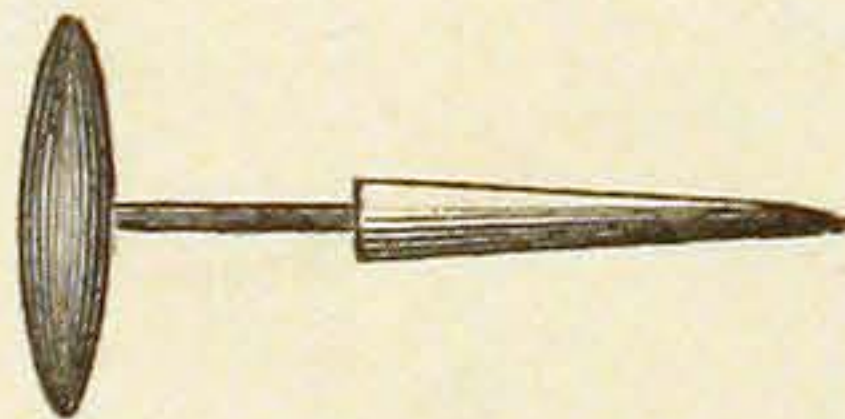
FIRMER GOUGE.

Fig. 1092.



CHIPPING KNIFE.

Fig. 1093.



TAP BORER.

Fig. 1094.



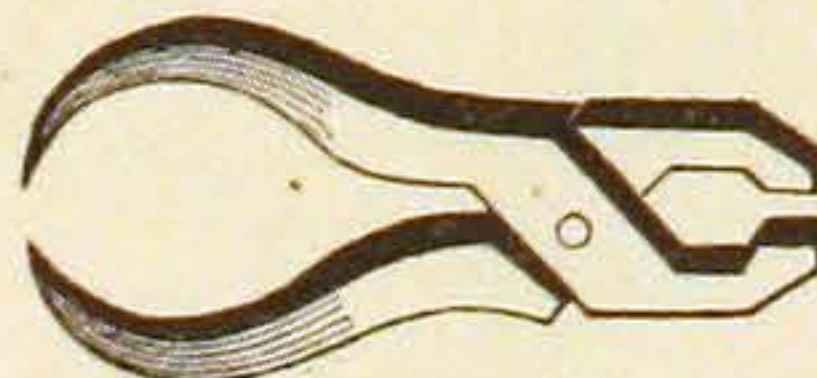
ROUND IRON.

Fig. 1095.



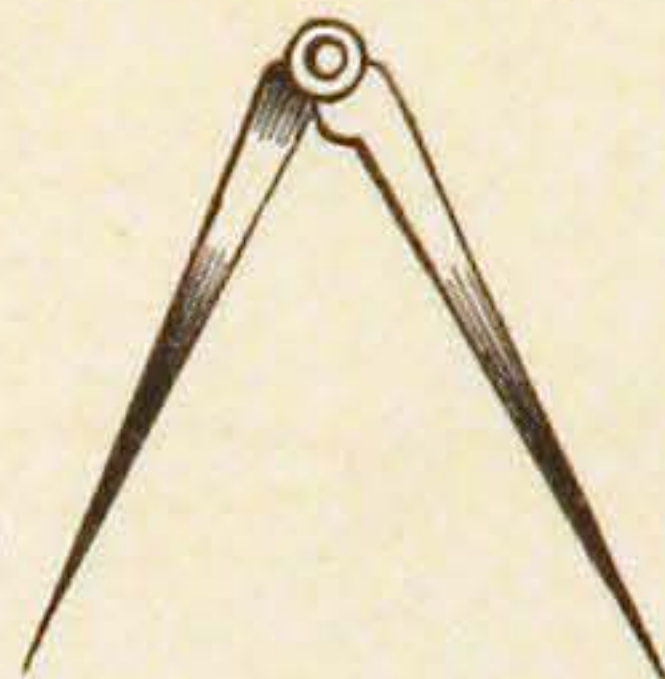
SHAVE HOOK.

Fig. 1096.



CUTTING PLYERS.

Fig. 1097.



COMPASSES.

Fig. 1098.

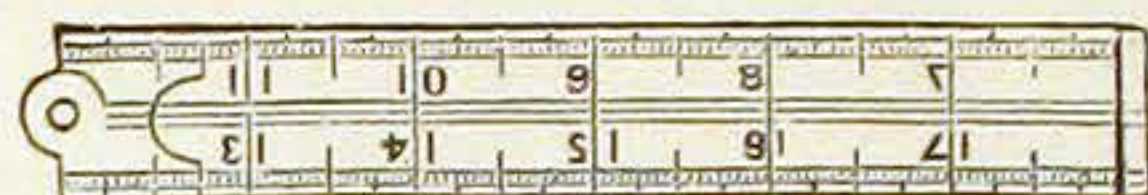


SOIL CUP.



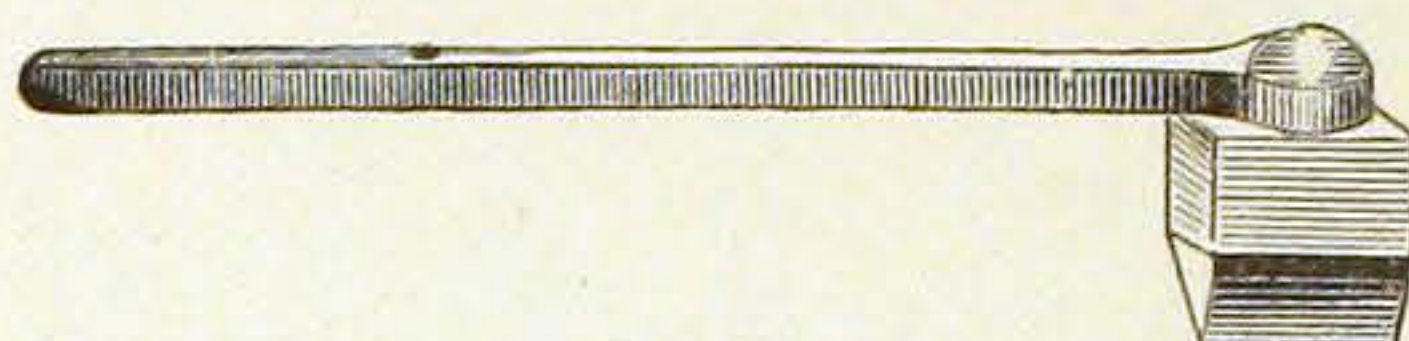
## PLUMBERS' TOOLS, Continued.

Fig. 1099.



2 FOOT RULE.

Fig. 1100.



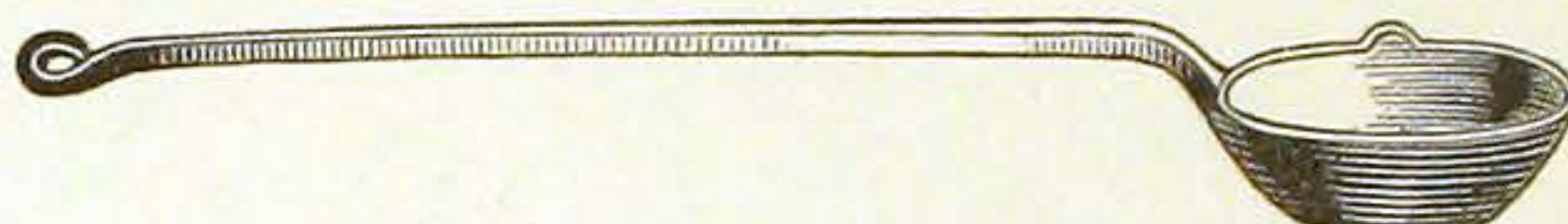
COPPER HATCHET BOLT.

Fig. 1101.



COPPER POINTED BOLT.

Fig. 1102.



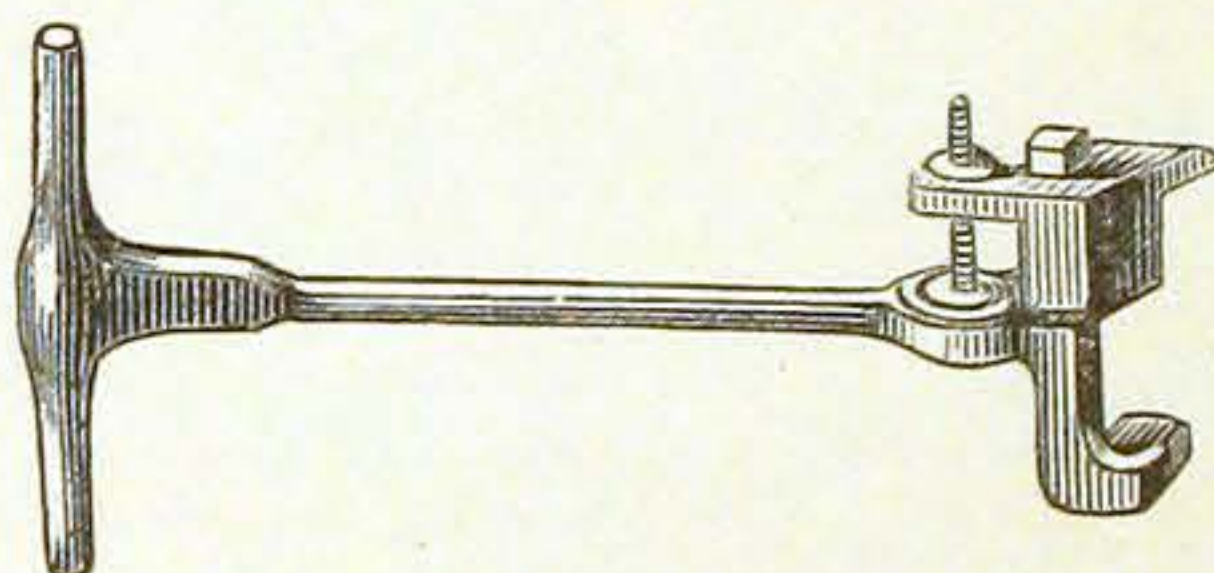
LADLE.

Fig. 1103.



STEEL BENDING PIN.

Fig. 1104.



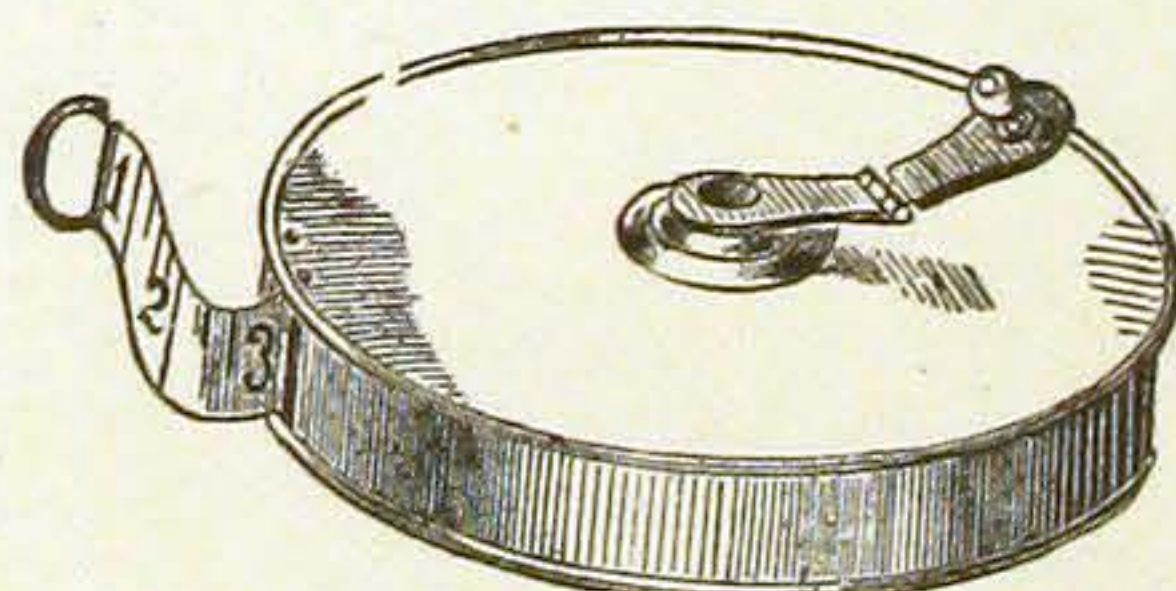
PATENT BASIN WRENCH.

Fig. 1105.



COMPASS SAW.

Fig. 1106.



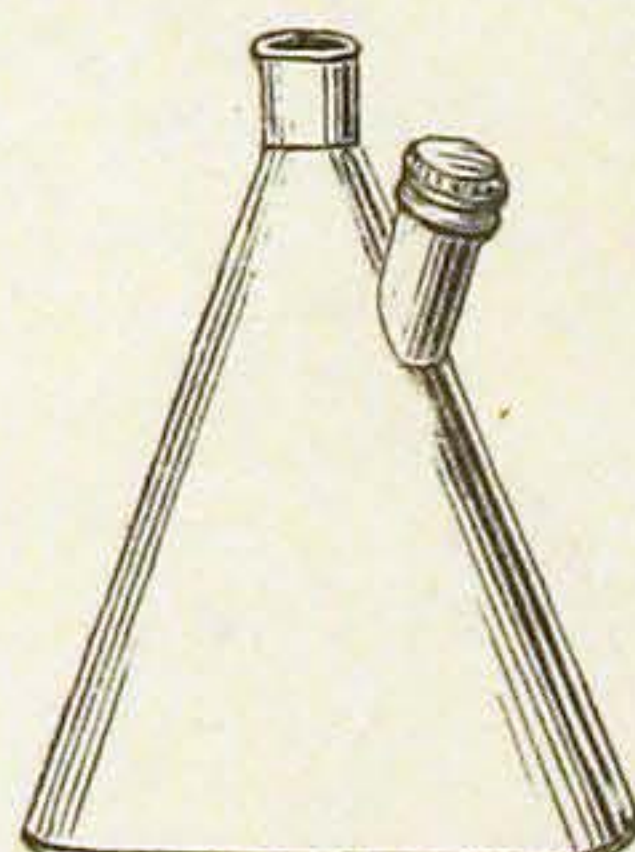
MEASURING TAPE.

Fig. 1107.



BLOW-PIPE.

Fig. 1108.



TORCH.

Fig. 1109.



GAS PLYERS.

Fig. 1110.



GREASE BOX.



PLUMBERS' TOOLS, Continued.  
WASHER CUTTER. ST. WASHER KEY.

Fig. 1111.

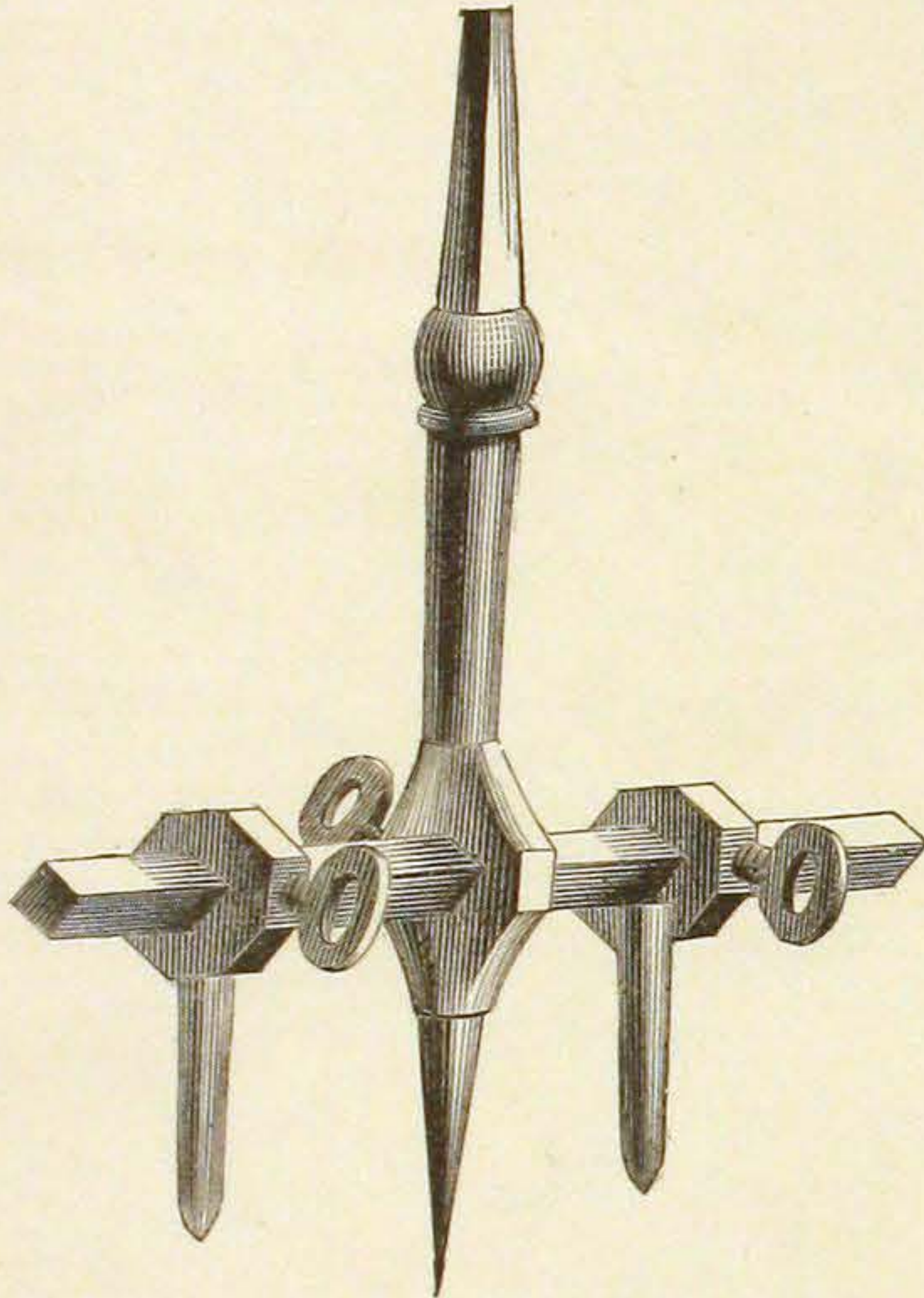
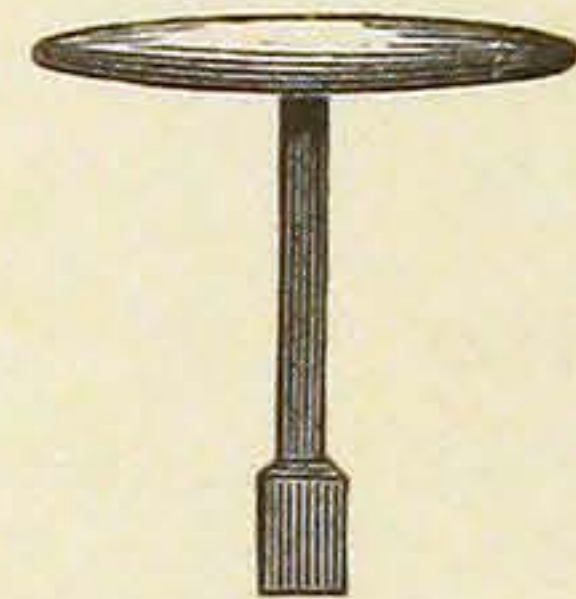
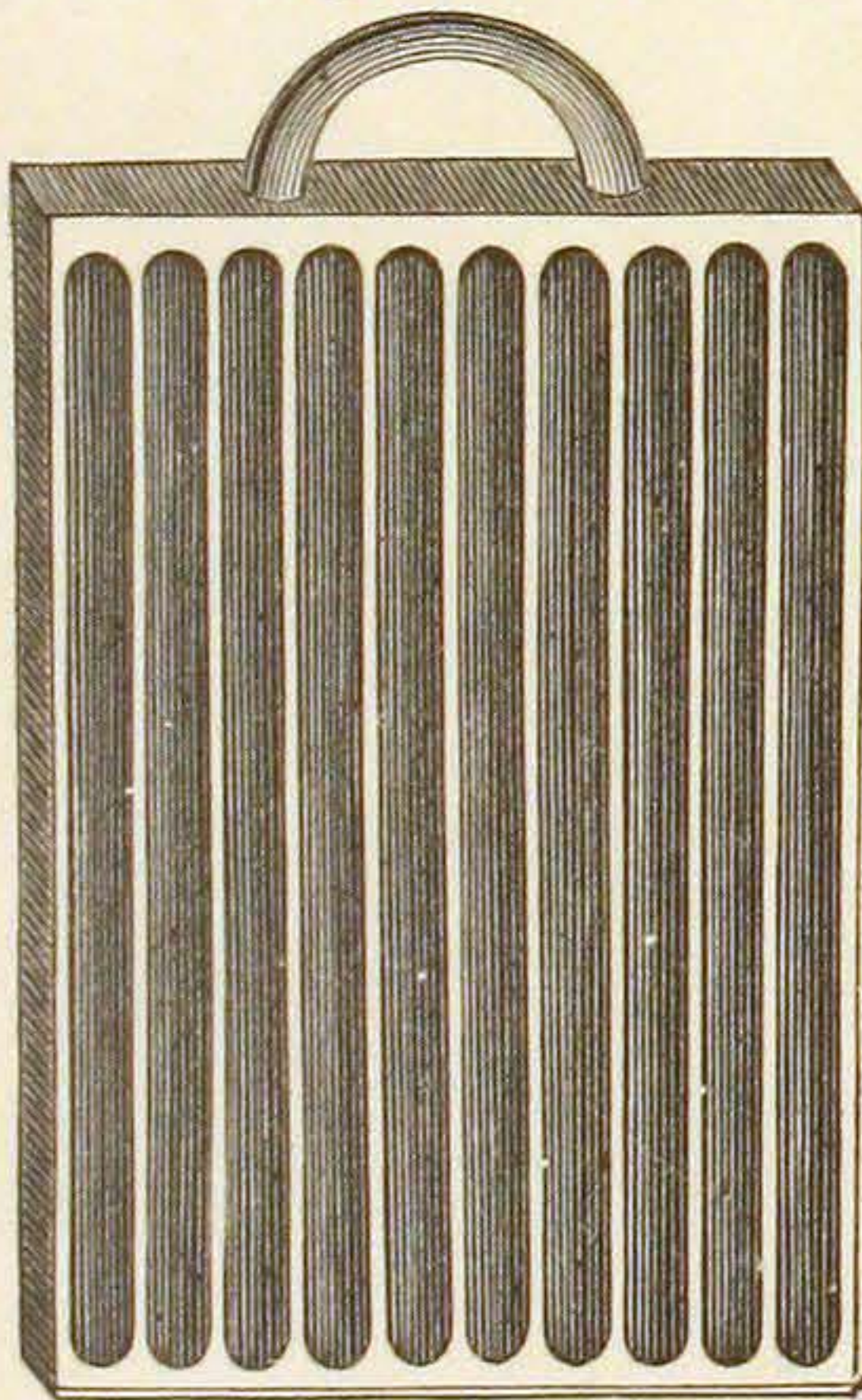


Fig. 1112.



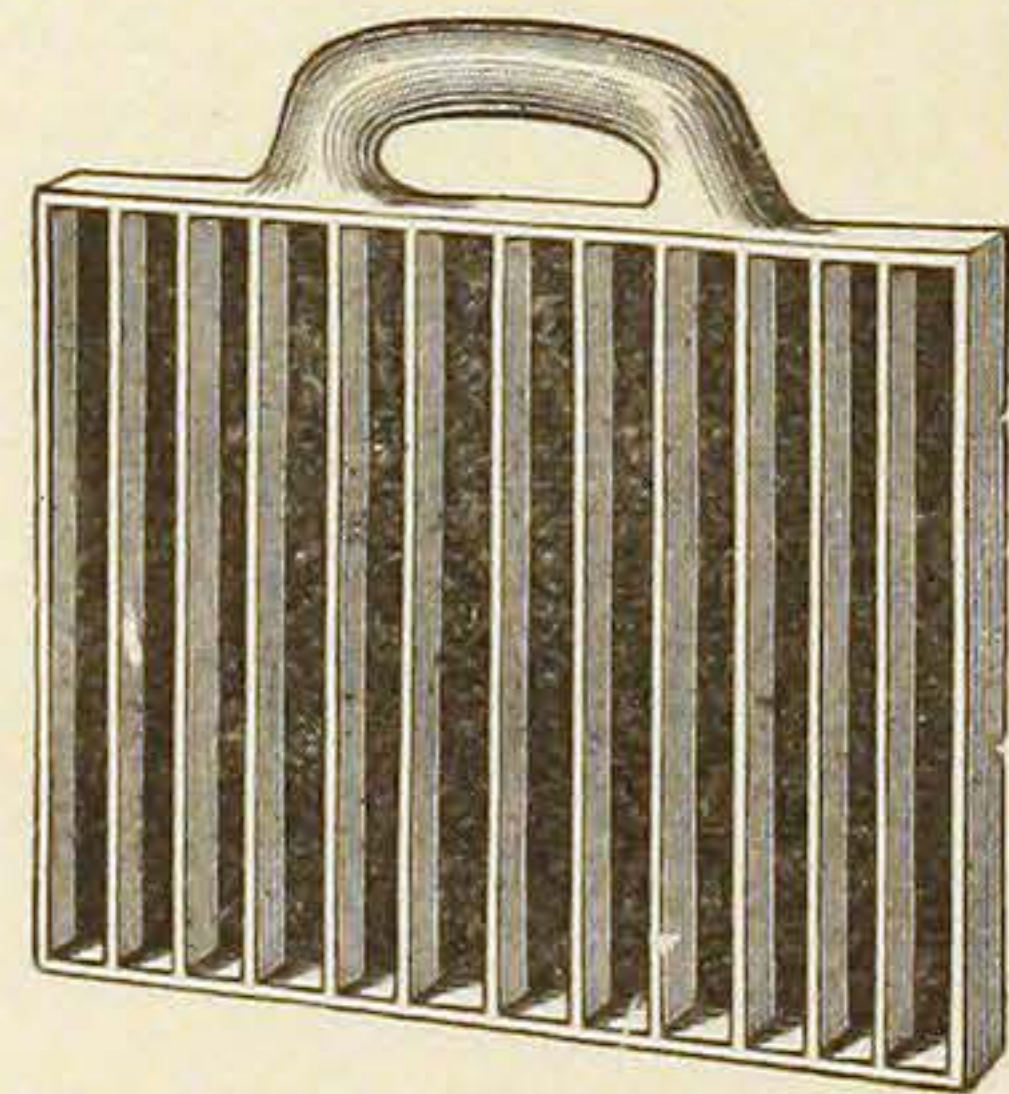
SOLDER MOULDS.

Fig. 1113.



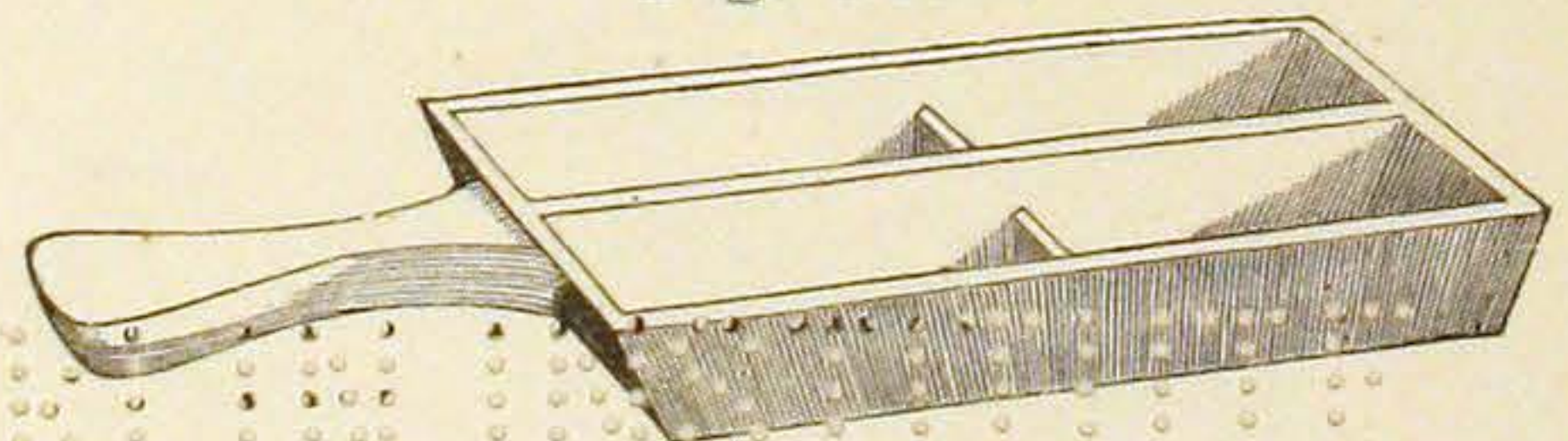
Half Round Bar.

Fig. 1114.



Square Bar.

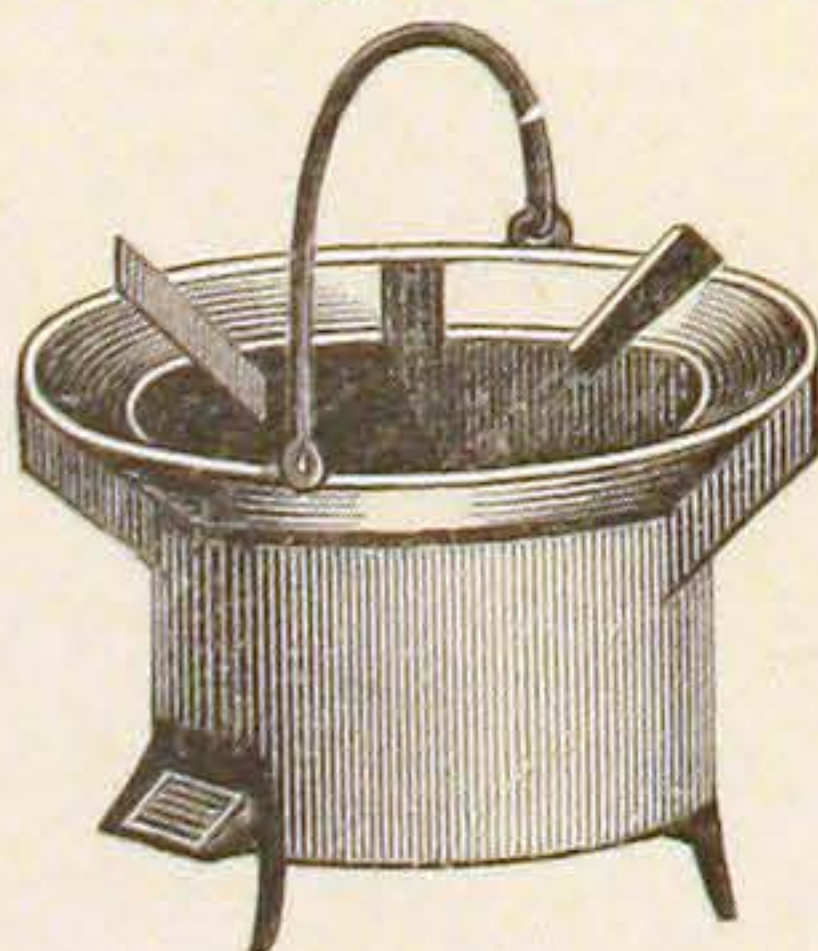
Fig. 1115.



2 and 4 Bars.

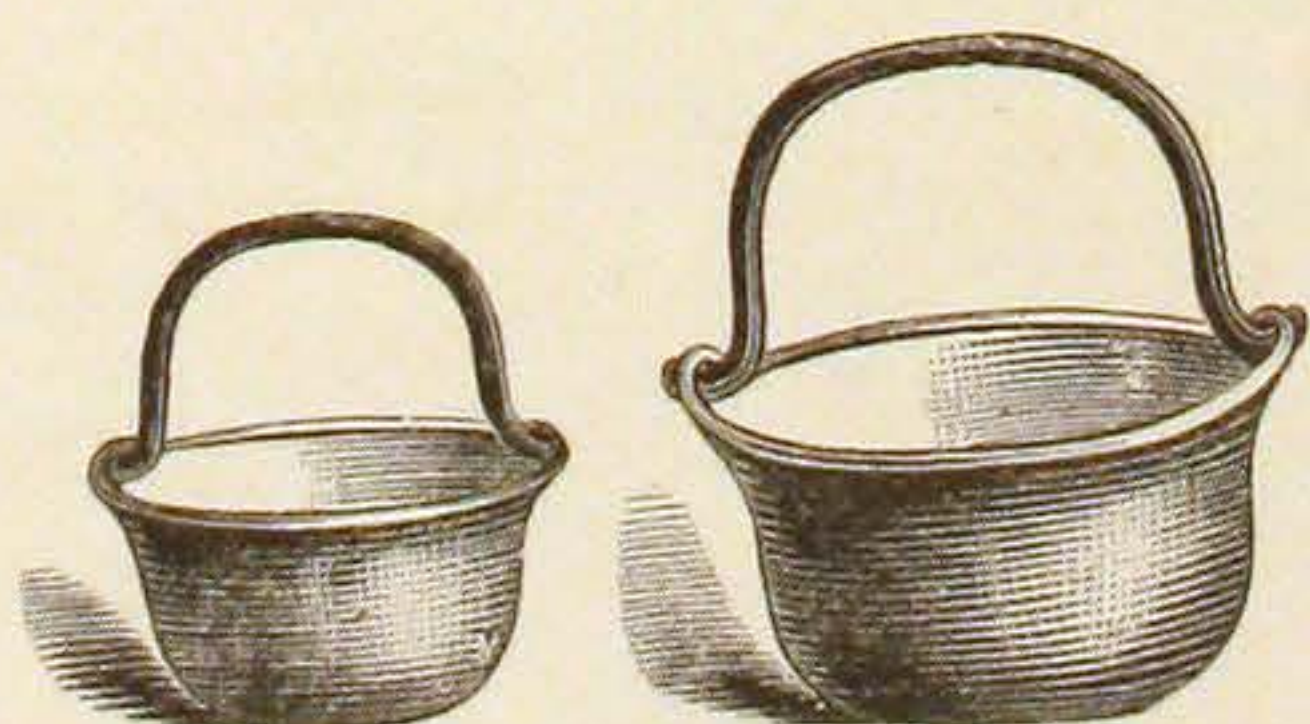
CHARCOAL FURNACE.

Fig. 1116.



SOLDER POTS.

Fig. 1117.





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